



In cooperation with Minnesota Agricultural Experiment Station

# Soil Survey of Pennington County, Minnesota



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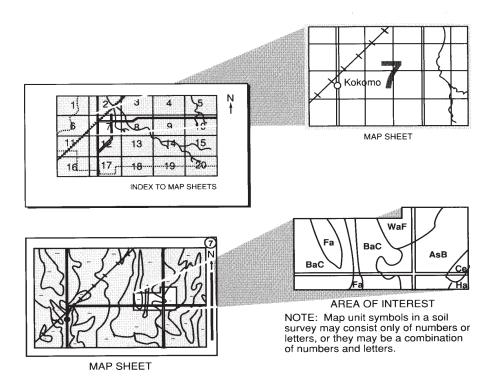
# **How To Use This Soil Survey**

This publication consists of a manuscript and a set of soil maps. The information provided can be useful in planning the use and management of small areas.

To find information about your area of interest, locate that area on the **Index to Map Sheets**. Note the number of the map sheet, and turn to that sheet.

Locate your area of interest on the map sheet. Note the map unit symbols that are in that area. Turn to the **Contents**, which lists the map units by symbol and name and shows the page where each map unit is described. The map unit symbols and names also appear as bookmarks, which link directly to the appropriate page in the publication.

The **Contents** shows which table has data on a specific land use for each soil map unit. Also see the **Contents** for other sections of this publication that may address your specific needs.



This soil survey is a publication of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (formerly the Soil Conservation Service) has leadership for the Federal part of the National Cooperative Soil Survey.

Major fieldwork for this soil survey was completed in 2002. Soil names and descriptions were approved in 2003. This survey was made cooperatively by the Natural Resources Conservation Service, the Minnesota Agricultural Experiment Station, and the Minnesota Agricultural Extension Service. It is part of the technical assistance furnished to the Pennington Soil and Water Conservation District.

Soil maps in this survey may be copied without permission. Enlargement of these maps, however, could cause misunderstanding of the detail of mapping. If enlarged, maps do not show the small areas of contrasting soils that could have been shown at a larger scale.

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Cover: A farmstead in western Pennington County. Conservation practices include field windbreaks, a farmstead shelterbelt, and a filter strip along the Black River channel.

Additional information about the Nation's natural resources is available on the Natural Resources Conservation Service homepage on the World Wide Web. The address is http://www.nrcs.usda.gov.

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## **Foreword**

This soil survey contains information that affects land use planning in this survey area. It contains predictions of soil behavior for selected land uses. The survey also highlights soil limitations, improvements needed to overcome the limitations, and the impact of selected land uses on the environment.

This soil survey is designed for many different users. Farmers, foresters, and agronomists can use it to evaluate the potential of the soil and the management needed for maximum food and fiber production. Planners, community officials, engineers, developers, builders, and home buyers can use the survey to plan land use, select sites for construction, and identify special practices needed to ensure proper performance. Conservationists, teachers, students, and specialists in recreation, wildlife management, waste disposal, and pollution control can use the survey to help them understand, protect, and enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. The information in this report is intended to identify soil properties that are used in making various land use or land treatment decisions. Statements made in this report are intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are shallow to bedrock. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

These and many other soil properties that affect land use are described in this soil survey. The location of each soil is shown on the detailed soil maps. Each soil in the survey area is described, and information on specific uses is given. Help in using this publication and additional information are available at the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

William Hunt State Conservationist Natural Resources Conservation Service

# Where To Get Updated Information

The soil properties and interpretations included in this survey were current as of July 2003. The most current information is available through the NRCS Soil Data Mart Website at http://soildatamart.nrcs.usda.gov/

Additional information is available from the Natural Resources Conservation Service (NRCS) Field Office Technical Guide at Thief River Falls, Minnesota, or online at www.nrcs.usda.gov/technical/efotg. The data in the Field Office Technical Guide are updated periodically.

Additional information about soils and about NRCS is available through the Minnesota NRCS Web page at www.mn.nrcs.usda.gov.

For further information, please contact:

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# Soil Survey of **Pennington County, Minnesota**

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United States Department of Agriculture, Natural Resources Conservation Service, in cooperation with the Minnesota Agricultural Experiment Station and the Minnesota Cooperative Extension Service

### **How This Survey Was Made**

This survey was made to provide updated information about the soils and miscellaneous areas in the survey area, which is in Major Land Resource Areas 56 (Red River Valley of the North) and 88 (Northern Minnesota Glacial Lake Basins) (fig. 1). Major land resource areas (MLRAs) are geographically associated land resource units that share a common land use, elevation and topography, climate, water, soils, and vegetation (USDA, 1981). Pennington County is a subset of MLRAs 56 and 88. Map unit design and the detailed soil descriptions are based on the occurrence of each soil throughout the MLRA. In some places in this publication, a soil may be referred to that was not mapped in the Pennington County subset but that is representative of the MLRA.

This survey updates the information in previous surveys published for this area (USDA, 1916; USDA, 1984). The current survey provides more information and has larger maps, which show the soils in greater detail.

The information in this survey includes a brief description of the soils and miscellaneous areas and interpretive tables showing soil properties and the subsequent effects on suitability, limitations, and management for specified uses. During the fieldwork for this survey, soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They dug many holes to study the soil profile, which is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil

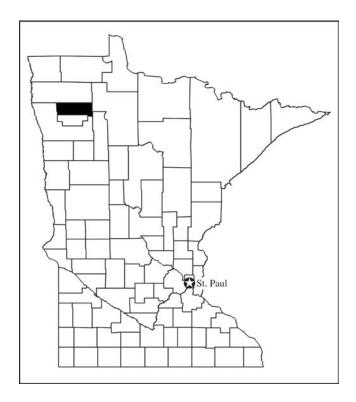


Figure 1.—Location of Pennington County in Minnesota.

formed. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

The soils and miscellaneous areas in the survey area are in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and

miscellaneous area is associated with a particular kind of landscape or segment of the landscape. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landscape, soil scientists develop a concept, or model, of how the soils were formed. Thus, during mapping, this model enables the soil scientists to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Individual soils on the landscape commonly merge into one another as their characteristics gradually change. To construct an accurate map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they observed. The maximum depth of observation was about 80 inches (6.7 feet). Soil scientists noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, soil reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Interpretations are modified as necessary to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a zone in which the soil moisture status is wet within certain depths in most years, but they cannot predict that this zone will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

The descriptions, names, and delineations of the soils in this county may not fully agree with those of the soils in adjacent survey areas. Differences are the result of a better knowledge of soils, modifications in series concepts, or variations in the intensity of mapping or in the extent of the soils in the survey areas.

# Formation and Classification of the Soils

This section relates the soils in the survey area to the major factors of soil formation and describes the system of soil classification.

### Factors of Soil Formation

Soils formed as a result of the interaction of five major factors—parent material, climate, plants and animals, relief, and time. Climate and plants and animals are the active factors of soil formation Their effects are conditioned by relief and time as they act on the parent material. These factors slowly change the parent material into a natural body that has genetically related horizons. This natural body is known as soil.

### Climate

Climate has affected the formation of soils in Pennington County. The parent material of these soils originated in a climate that produced continental glaciers.

When the climate warmed and the glaciers receded and melted, the area was covered by Glacial Lake Agassiz. Eventually, as the climate stabilized to its present temperatures, the glacial lake drained.

As a soil-forming factor, climate affects the physical, chemical, and biological characteristics of the soil. Pennington County has a cool, subhumid climate that has wide variations in temperature from summer to winter. During the long winter, when the soil is frozen to a depth of 3 to 5 feet for 6 months of the year, the soil-forming processes are dormant except for the effects of frost action.

The influences of climate on the soil-forming processes are most pronounced during the growing season. There is slightly more precipitation in the eastern part of the county than in the western part, and this difference has produced different kinds of native vegetation in these areas. The soils in the eastern part of Pennington County developed under savanna or forest vegetation, and those in the western part developed under prairie vegetation. The lower amount of rainfall influences the content of lime in the

soils in the western part of the county. Also, the lower amount of rainfall results in less effective removal of the soluble and colloidal materials in the upper part of the soil. The dominance of soils that have a high content of lime in the western part of Pennington County is the result of lower precipitation and of a water table that is lower than in the eastern part.

### **Living Organisms**

The native vegetation of Pennington County is generally divided into two types—tall grass prairie and mixed hardwood forests.

West of the Red Lake and Thief Rivers, the soils developed under tall grass prairie and, in places, wetland reeds and sedges. Big bluestem, little bluestem, Canada wildrye, prairie cordgrass, needleandthread, indiangrass, and porcupinegrass are common kinds of vegetation. In addition, several species of wild flowers grew in the native prairie.

The prairie vegetation produces organic matter, and the bacteria that act upon the decaying plant remains create nitrogen for more vigorous plant growth. This process becomes a nutrient cycle. The organic matter stains the soil surface layer, and the soils become progressively darker as the content of organic matter increases. Soils that contain high amounts of lime at or near the surface, however, become grayish. These soils can be easily seen in cultivated fields.

East of the Red Lake and Thief Rivers and on the beach ridges in the western part of the county, the soils developed under mixed hardwood forests. Bur oak and quaking aspen are examples of this kind of native vegetation.

The hardwood forests aided in stabilizing the soil in these areas, but other effects on soil formation have been minimal. Soluble nutrients and clay particles were transported down into the soil profile by further precipitation. This movement is shown by the accumulation of clay in most of the soil profiles in the eastern part of Pennington County.

The activities of animals in the formation of soils in the county are of small importance as compared to the influence of plants. Earthworms and rodents, however,

perform an important function in the transportation and translocation of organic material. They mix the surface soil, subsoil, and parent material.

Human activities have altered most of the soils in Pennington County. Tillage has partially altered the original structure of the surface soil and has mixed the darker surface layer with the lighter colored subsoil. Applications of fertilizer and manure have increased the fertility of the soils.

### **Topography**

Relief influences soil formation through its effect on temperature, drainage, erosion, and vegetation. Relief, or topography, is the most important factor in the differentiation of soils that formed in similar kinds of parent material.

Because Pennington County has level to gently sloping topography, many of the soils are poorly drained, have a high content of organic matter, and are mottled in degrees of varying intensity. Soils in the slightly deeper, concave areas commonly have an organic surface layer and have a higher water table than the other soils. In these areas, the soils appear gleyed.

In the western part of Pennington County, the relief of the beach ridges and sandbars is more pronounced than in the rest of the county. The gently sloping, gravelly and sandy soils in this area commonly have better drainage, less organic matter, less clay, and fewer redoximorphic features than the soils on the nearly level glacial lake plain. The relief of these beach ridges is the result of the wave action of Glacial Lake Agassiz.

### **Parent Material**

The parent material in most of Pennington County was derived from the calcareous, loamy till deposited during the last glaciation. This till was later modified and reworked by Glacial Lake Agassiz, which covered the county after the glacier receded. Loamy till underlies all of the present glacial lake sediment, and it is at or near the surface over much of the county. The differences in the depth of these glacial deposits account for many of the differences in the soils.

The eastern two-thirds of the county is a nearly level glacial plain. The calcareous till is commonly loam or clay loam. Pebbles and small stones are scattered over the surface of the area and throughout the till. Most of the soils are poorly drained. The topography is nearly level, but there are many shallow depressions and narrow drainageways.

The soils in the western one-third of Pennington County formed in material deposited by Glacial Lake Agassiz. Lacustrine sediment of silt and clay was deposited in lake basins, and lacustrine sand was deposited in sandbars, deltas, and interbeach areas. Gently sloping beach ridges and sandbars were formed when Glacial Lake Agassiz receded. These parent materials are commonly sand and loamy sand interspersed with gravel, small stones, and a few boulders on the surface and throughout the sediment.

### **Time**

Geologically, all of the soils in Pennington County are young. The soil-forming processes have been active for 9,000 to 12,000 years. The parent material was deposited by the most recent glacier and subsequent stages of Glacial Lake Agassiz.

As a result of this relatively short length of time for soil development, the soils in the county have thinner profiles than soils that have developed over a longer period.

### Classification of the Soils

The system of soil classification used by the National Cooperative Soil Survey has six categories (Soil Survey Staff, 1998 and 1999). Beginning with the broadest, these categories are the order, suborder, great group, subgroup, family, and series. Classification is based on soil properties observed in the field or inferred from those observations or from laboratory measurements. Table 1 shows the classification of the soils in the survey area. The categories are defined in the following paragraphs.

ORDER. Twelve soil orders are recognized. The differences among orders reflect the dominant soil-forming processes and the degree of soil formation. Each order is identified by a word ending in *sol*. An example is Mollisol.

SUBORDER. Each order is divided into suborders primarily on the basis of properties that influence soil genesis and are important to plant growth or properties that reflect the most important variables within the orders. The last syllable in the name of a suborder indicates the order. An example is Aquoll (*Aqu*, meaning water, plus *oll*, from Mollisol).

GREAT GROUP. Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of development of pedogenic horizons; soil moisture and temperature regimes; and base status. Each great group is

identified by the name of a suborder and by a prefix that indicates a property of the soil. An example is Endoaquolls (*Endo*, meaning within, plus *aquoll*, the suborder of the Mollisols that has an aquic moisture regime).

SUBGROUP. Each great group has a typic subgroup. Other subgroups are intergrades or extragrades. The typic is the central concept of the great group; it is not necessarily the most extensive. Intergrades are transitions to other orders, suborders, or great groups. Extragrades have some properties that are not representative of the great group but do not indicate transitions to any other known kind of soil. Each subgroup is identified by one or more adjectives preceding the name of the great group. The adjective Typic identifies the subgroup that typifies the great group. An example is Typic Endoaquolls.

FAMILY. Families are established within a subgroup on the basis of physical and chemical properties and other characteristics that affect management. Generally, the properties are those of

horizons below plow depth where there is much biological activity. Among the properties and characteristics considered are particle-size class, mineralogy class, cation-exchange activity class, soil temperature regime, soil depth, and reaction class. A family name consists of the name of a subgroup preceded by terms that indicate soil properties. An example is fine-loamy, mixed, superactive, calcareous, frigid Typic Endoaquolls.

SERIES. The series consists of soils that have similar horizons in their profile. The horizons are similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile. The texture of the surface layer or of the substratum can differ within a series. The soils of the Roliss series are fine-loamy, mixed, superactive, calcareous, frigid Typic Endoaquolls.

The Official Soil Series Descriptions (OSDs) provide the most current information about the series mapped in Pennington County. These descriptions are available on the Web at http://soils.usda.gov.

Table 1.--Classification of the Soils

Soil name	Family or higher taxonomic class
Augsburg	  Coarse-silty over clayey, mixed over smectitic, superactive, frigid Typic Calciaquolls
Berner	Loamy, mixed, euic, frigid Terric Haplosaprists
Boash	Clayey over loamy, smectitic over mixed, superactive, calcareous, frigid Vertic Endoaquoll
Borup	Coarse-silty, mixed, superactive, frigid Typic Calciaquolls
Bowstring	Euic, frigid Fluvaquentic Haplosaprists
Cathro	Loamy, mixed, euic, frigid Terric Haplosaprists
Chilgren	Fine-loamy, mixed, superactive, frigid Typic Endoaqualfs
Clearwater	Fine, smectitic, frigid Typic Epiaquerts
Deerwood	Sandy, mixed, frigid Histic Humaquepts
Dora	Clayey, smectitic, euic, frigid Terric Haplosaprists
Eckvoll	Loamy, mixed, superactive, frigid Aquic Arenic Hapludalfs
Endoaquents	Endoaquents
Espelie	Sandy over clayey, mixed over smectitic, frigid Typic Epiaquolls
Fairdale	Fine-loamy, mixed, superactive, calcareous, frigid Mollic Udifluvents
Flaming	Sandy, mixed, frigid Oxyaquic Hapludolls
Fluvaquents	Fluvaquents
Foldahl	Sandy over loamy, mixed, superactive, frigid Oxyaquic Hapludolls
Foxhome	Sandy-skeletal over loamy, mixed, superactive, frigid Oxyaquic Hapludolls
Foxlake	Fine, smectitic, frigid Vertic Epiaquolls
Garborg	
Garnes	Fine-loamy, mixed, superactive, frigid Aquic Hapludalfs
Glyndon	Coarse-silty, mixed, superactive, frigid Aeric Calciaquolls
Grimstad	Sandy over loamy, mixed, superactive, frigid Aeric Calciaquolls
Grygla	Sandy over loamy, mixed, superactive, nonacid, frigid Mollic Endoaquents
Hamar	Sandy, mixed, frigid Typic Endoaquolls
Hamerly	Fine-loamy, mixed, superactive, frigid Aeric Calciaquolls
Hamre	Fine-loamy, mixed, superactive, nonacid, frigid Histic Humaquepts
Hangaard	Sandy, mixed, frigid Typic Endoaquolls
Hapludalfs	Hapludalfs
Hapludolls	Hapludolls
Mattie	Fine, smectitic, frigid Aquic Hapluderts

Table 1.--Classification of the Soils--Continued

Soil name	Family or higher taxonomic class
Hilaire	  Sandy over clayey, mixed over smectitic, frigid Oxyaquic Hapludolls
Huot	Sandy over clayey, mixed over smectitic, frigid Aquic Calciudolls
Karlsruhe	Sandy, mixed, frigid Aeric Calciaquolls
Kittson	Fine-loamy, mixed, superactive, frigid Oxyaquic Hapludolls
Kratka	Sandy over loamy, mixed, superactive, frigid Typic Endoaquolls
Linveldt	Coarse-loamy, mixed, superactive, frigid Oxyaquic Argiudolls
Maddock	Sandy, mixed, frigid Entic Hapludolls
Markey	
Marquette	Loamy-skeletal, mixed, superactive, frigid Inceptic Hapludalfs
=	Sandy-skeletal over loamy, mixed, superactive, frigid Typic Calciaquolls
	Clayey over loamy, smectitic over mixed, superactive, frigid Oxyaquic Argiudolls
	Sandy over loamy, mixed, superactive, nonacid, frigid Histic Humaquepts
	Coarse-loamy, mixed, superactive, frigid Oxyaquic Argiudolls
_	Loamy-skeletal, mixed, superactive, frigid Oxyaquic Hapludalfs
Poppleton	Mixed, frigid Aquic Udipsamments
 Radium	Sandy, mixed, frigid Oxyaquic Hapludolls
	Fine-silty, mixed, superactive, calcareous, frigid Cumulic Endoaquolls
Reiner	Fine-loamy, mixed, superactive, frigid Oxyaquic Argiudolls
Reis	Fine, smectitic, frigid Typic Calciaquerts
Roliss	Fine-loamy, mixed, superactive, calcareous, frigid Typic Endoaquolls
	Sandy, mixed, frigid Typic Calciaquolls
	Sandy, mixed, frigid Calcic Hapludolls
Seelyeville	Euic, frigid Typic Haplosaprists
- Sioux	Sandy-skeletal, mixed, frigid Entic Hapludolls
Smiley	Fine-loamy, mixed, superactive, frigid Typic Argiaquolls
=	Sandy-skeletal over loamy, mixed, superactive, calcareous, frigid Typic Endoaquolls
Strathcona	Sandy over loamy, mixed, superactive, frigid Typic Calciaquolls
Syrene	Sandy, mixed, frigid Typic Calciaquolls
_	Sandy over clayey, mixed over smectitic, frigid Typic Calciaquolls
Udipsamments	,
-	Sandy, mixed, frigid Aeric Calciaquolls
	Fine-loamy, mixed, superactive, frigid Typic Calciaquolls
	Sandy, mixed, frigid Typic Endoaquolls
Wheatville	Coarse-silty over clayey, mixed over smectitic, superactive, frigid Aeric Calciaquolls
	Sandy over clayey, mixed over smectitic, frigid Typic Calciaquolls

# **Soil Map Unit Descriptions**

In this section, arranged in numerical order, are the soil map unit descriptions for the soil series mapped in Pennington County.

Characteristics of the soil and the material in which it formed are identified for each soil series. A brief description of the soil profile is provided in the map unit descriptions. For more information about a soil series, the official series description can be viewed or downloaded from the Web. The detailed descriptions follow standards in the "Soil Survey Manual" (Soil Survey Division Staff, 1993). Many of the technical terms used in the descriptions are defined in "Keys to Soil Taxonomy" (Soil Survey Staff, 1998).

The map units on the soil maps in this survey represent the soils or miscellaneous areas in the survey area. These soils or miscellaneous areas are listed as individual components in the map unit descriptions. The map unit descriptions in this section, along with the maps, can be used to determine the suitability and potential of a unit for specific uses. They also can be used to plan the management needed for those uses. More information about each map unit is provided in the tables (see Contents).

A map unit delineation on the soil maps represents an area on the landscape. It is identified by differences in the properties and taxonomic classification of components and by the percentage of each component in the map unit.

Components that are dissimilar, or contrasting, are identified in the map unit description. Dissimilar components are those that have properties and behavioral characteristics divergent enough from those of the major components to affect use or to require different management. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps.

Components that are similar to the major components (noncontrasting) are not identified individually in the map unit description. Similar components are those that have properties and behavioral characteristics similar enough to those of the major components that they do not affect use or require different management.

The presence of multiple components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into segments that have similar use and management requirements. The delineation of such landscape segments on the map provides sufficient information for the development of resource plans, but if intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol is used for each map unit on the soil maps. This symbol precedes the map unit name in the map unit descriptions. Each description includes general information about the unit. The map unit descriptions include representative values in feet and the months in which wet soil moisture status is highest and lowest in the soil profile and ponding is shallowest and deepest on the soil surface. They also include the classes of flooding and the months in which flooding is least and most likely to occur. Table 26 provides a complete display of this data for every month of the year. The available water capacity given in each map unit description is calculated for all horizons in the soil profile. The organic matter content displayed in each map unit description is calculated for all horizons in the soil profile, except those that represent the surface duff layer on forested soils. Table 24 provides a complete display of available water capacity and organic matter content by horizon.

The principal hazards and limitations to be considered in planning for specific uses are described in other sections of this survey.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer or of the underlying layers, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer or of the underlying layers. They also can differ in slope, stoniness, salinity, wetness, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. The name of a soil phase commonly indicates a feature that affects use or

management. For example, Smiley mucky loam, depressional, 0 to 1 percent slopes, is a phase of the Smiley series.

A map unit is named for the component or components that make up a dominant percentage of the map unit. Many map units consist of one dominant component. These map units are consociations. Smiley loam, 0 to 2 percent slopes, is an example.

Some map units are made up of two or more dominant components. These map units are complexes or undifferentiated groups.

A complex consists of two or more components in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. Attempting to delineate the individual components of a complex would result in excessive clutter that could make the map illegible. The pattern and proportion of the components are somewhat similar in all areas. Sandberg-Radium complex, 1 to 6 percent slopes, is an example.

An undifferentiated group is made up of two or more components that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the components in a mapped area are not uniform. An area can be made up of only one of the dominant components, or it can be made up of all of them. Berner and Cathro soils, ponded, MLRA 56, 0 to 1 percent slopes, is an undifferentiated group in this survey area.

This survey includes miscellaneous areas. Such areas have little or no soil material and support little or no vegetation. The map unit Pits, gravel and sand, is an example.

Some map units include the words "Des Moines" in the map unit name. These map units formed in material from the Des Moines Lobe advance of the Late Wisconsin glacial period.

Table 2 gives the acreage and proportionate extent of each map unit. Other tables (see Contents) give properties of the soils and the limitations, capabilities, and potentials for many uses. The Glossary defines many of the terms used in describing the soils or miscellaneous areas.

### B109A—Bowstring and Fluvaquents soils, Des Moines, 0 to 2 percent slopes, frequently flooded

### **Component Description**

### Bowstring and similar soils

Extent: 45 percent of the unit Geomorphic component: Swales on flood plains Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over alluvium Months in which flooding does not occur: January, February, December

Highest frequency of flooding: Very frequent (April, May)

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 21.4 inches

Content of organic matter in the upper 10 inches: 65 percent

Typical profile:

Oa1,Oa2—0 to 38 inches; muck

Cg—38 to 47 inches; stratified sand to fine sandy loam

O'a-47 to 80 inches; muck

### Fluvaquents and similar soils

Extent: 40 percent of the unit

Geomorphic component: Swales on flood plains; flats on flood plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Alluvium

Months in which flooding does not occur: January, February, December

Highest frequency of flooding: Very frequent (April, May)

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August)
Shallowest ponding: 0.5 foot (January, February,
March, June, July, August, September, October,
November, December)

Deepest ponding: 0.7 foot (April, May)

Available water capacity to a depth of 60 inches: 8.1 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

A-0 to 16 inches; fine sandy loam

Cg—16 to 80 inches; stratified loamy sand to silt loam

### **Hapludalfs**

Extent: 5 percent of the unit

Geomorphic component: Hillslopes in drainageways;

escarpments in drainageways Slope range: 3 to 60 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits and till Months in which flooding does not occur: January, February, December

Highest frequency of flooding: Rare (March, April, May, June, September, October, November)

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August) Ponding: None

Available water capacity to a depth of 60 inches: 10.1

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 6 inches; fine sandy loam E—6 to 8 inches; fine sandy loam Bt1,Bt2—8 to 25 inches; silty clay loam C1,C2—25 to 80 inches; silt loam

### Seelyeville

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

Drainage class: Very poorly drained Parent material: Organic material

Months in which flooding does not occur: January, February, December

Highest frequency of flooding: Very frequent (April,

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August) Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 25.1 inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches: muck Oa2..Oa5—10 to 80 inches; muck

### Water

Extent: 5 percent of the unit

### Major Uses of the Map Unit

· Wetland wildlife habitat

### B200A—Garnes fine sandy loam, Des Moines, 0 to 3 percent slopes

### Component Description

### Garnes and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August)

Pondina: None

Available water capacity to a depth of 60 inches: 10

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

Ap—0 to 6 inches; fine sandy loam E—6 to 9 inches; loamy fine sand Bt-9 to 14 inches; clay loam Bk1,Bk2—14 to 72 inches; loam C-72 to 80 inches; loam

### Chilgren

Extent: 13 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till

Flooding: None Deepest depth to wet zone: 6.7 feet (transitory) Shallowest depth to wet zone: 0.5 foot (April) (August) Deepest depth to wet zone: 3.8 feet (August) Ponding: None Months when ponding does not occur: January, Available water capacity to a depth of 60 inches: 10.1 February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June, Content of organic matter in the upper 10 inches: 1.1 September, October, November) percent Available water capacity to a depth of 60 inches: 9.9 Typical profile: A—0 to 6 inches; loam E—6 to 9 inches; loamy fine sand Content of organic matter in the upper 10 inches: 1.1 percent Bt—9 to 14 inches; clay loam Typical profile: Bk1,Bk2—14 to 72 inches; loam A—0 to 4 inches; fine sandy loam C-72 to 80 inches; loam E-4 to 10 inches; fine sandy loam Grygla Btg-10 to 18 inches; clay loam Bkg1,Bkg2—18 to 72 inches; loam Extent: 4 percent of the unit Cg-72 to 80 inches; loam Geomorphic component: Swales on lake plains; flats on lake plains **Eckvoll** Slope range: 0 to 2 percent Extent: 5 percent of the unit Texture of the surface layer: Loamy fine sand Geomorphic component: Rises on lake plains Depth to restrictive feature: Very deep (more than 60 Slope range: 0 to 3 percent inches) Texture of the surface layer: Loamy fine sand Drainage class: Poorly drained Depth to restrictive feature: Very deep (more than 60 Parent material: Glaciolacustrine deposits and till Flooding: None inches) Drainage class: Moderately well drained Shallowest depth to wet zone: 0.5 foot (April) Parent material: Glaciolacustrine deposits over till Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, Flooding: None Shallowest depth to wet zone: 2.5 feet (April February, March, July, August, September, Deepest depth to wet zone: 6.7 feet (transitory) December (August) Deepest ponding: 0.3 foot (April, May) Pondina: None Available water capacity to a depth of 60 inches: 8.4 Available water capacity to a depth of 60 inches: 8.3 Content of organic matter in the upper 10 inches: 1.8 Content of organic matter in the upper 10 inches: 1.9 percent Typical profile: percent Typical profile: Ap-0 to 6 inches; loamy fine sand Ap-0 to 9 inches; loamy fine sand Bg-6 to 26 inches; fine sand E1,E2—9 to 25 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam 2Bt—25 to 32 inches; sandy clay loam Pelan 2BCk,2C1,2C2—32 to 80 inches; loam Extent: 3 percent of the unit Garnes, very stony Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Extent: 5 percent of the unit Geomorphic component: Rises on lake plains Texture of the surface layer: Sandy loam Depth to restrictive feature: Very deep (more than 60 Slope range: 1 to 4 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60 Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits over till Drainage class: Moderately well drained Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

(August)

Deepest depth to wet zone: 6.7 feet (transitory)

Parent material: Glaciolacustrine deposits and till

Shallowest depth to wet zone: 2.5 feet (April)

Flooding: None

Ponding: None

Available water capacity to a depth of 60 inches: 8.5

Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap-0 to 6 inches; sandy loam

E-6 to 9 inches; sand

Bt—9 to 14 inches; very gravelly sandy loam Bw—14 to 20 inches; very gravelly coarse sand

2Bw-20 to 60 inches; loam

### Major Uses of the Map Unit

· Hayland, pasture, or forestland

# B201A—Chilgren fine sandy loam, Des Moines, 0 to 2 percent slopes

### **Component Description**

### Chilgren and similar soils

Extent: 75 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 9.9

inches

Content of organic matter in the upper 10 inches: 1.1

percent
Typical profile:

A—0 to 4 inches; fine sandy loam

E—4 to 10 inches; fine sandy loam

Btg-10 to 18 inches; clay loam

Bkg1,Bkg2—18 to 72 inches; loam

Cg-72 to 80 inches; loam

### **Garnes**

Extent: 9 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10

inches

Content of organic matter in the upper 10 inches: 1.1

percent

Typical profile:

Ap—0 to 6 inches; fine sandy loam

E—6 to 9 inches; loamy fine sand

Bt—9 to 14 inches; clay loam

Bk1,Bk2—14 to 72 inches; loam C—72 to 80 inches; loam

### Grygla

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4

inches

Content of organic matter in the upper 10 inches: 1.8

percent Typical profile:

Ap-0 to 6 inches; loamy fine sand

Bg—6 to 26 inches; fine sand

2Bkg..2Cg-26 to 80 inches; loam

### Grygla, depressional

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

April, May)

Deepest depth to wet zone: 3 feet (February)

Shallowest ponding: 0.2 foot (July, August, September) Deepest ponding: 0.3 foot (January, February, March,

April, May, June, October, November, December) *Available water capacity to a depth of 60 inches:* 8.4

inches

Content of organic matter in the upper 10 inches: 6.3 percent

Typical profile:

Ap—0 to 6 inches; mucky loamy fine sand

Bg—6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### Hamre

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bq—18 to 35 inches; loam

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BCg,Cg-35 to 80 inches; loam

### Pelan

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.5

Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap—0 to 6 inches; sandy loam

E-6 to 9 inches; sand

Bt—9 to 14 inches; very gravelly sandy loam Bw—14 to 20 inches; very gravelly coarse sand

2Bw-20 to 60 inches; loam

### Major Uses of the Map Unit

· Hayland, pasture, or forestland

# B202A—Cathro muck, depressional, Des Moines, 0 to 1 percent slopes

### **Component Description**

### Cathro and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material over till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November,

December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches; muck Cq—23 to 60 inches; loam

### Hamre

Extent: 8 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December) Available water capacity to a depth of 60 inches: 13.3

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A-13 to 18 inches; loam Bg-18 to 35 inches; loam BCg,Cg—35 to 80 inches; loam

### Chilgren

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 9.9 inches

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; fine sandy loam E—4 to 10 inches; fine sandy loam Btg-10 to 18 inches; clay loam Bkg1,Bkg2—18 to 72 inches; loam Cg-72 to 80 inches; loam

### **Northwood**

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February) Shallowest ponding: 0.3 foot (July, August, September)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa-0 to 9 inches; muck

A-9 to 14 inches; loamy fine sand

Bg1,Bg2—14 to 24 inches; loamy fine sand

2BCkg,2Cg—24 to 80 inches; loam

### Berner

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A—28 to 31 inches; sandy loam Bg—31 to 44 inches; sand 2CBkg-44 to 80 inches; loam

### Grygla

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4 inches

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

Ap—0 to 6 inches; loamy fine sand Bg—6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### Seelyeville

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August)
Shallowest ponding: 0.3 foot (January, February, July,
August, September, October, November,
December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 25.1 inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck
Oa2..Oa5—10 to 80 inches; muck

### Major Uses of the Map Unit

· Pasture or wildlife habitat

# B203A—Northwood muck, depressional, Des Moines, 0 to 1 percent slopes

### **Component Description**

### Northwood and similar soils

Extent: 75 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December) Available water capacity to a depth of 60 inches: 11.3

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa—0 to 9 inches; muck

A—9 to 14 inches; loamy fine sand

Bg1,Bg2—14 to 24 inches; loamy fine sand

2BCkg,2Cg-24 to 80 inches; loam

### Hamre

Extent: 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)
Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg—18 to 35 inches; loam BCg,Cg—35 to 80 inches; loam

### Grygla

Extent: 7 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4 inches

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

Ap—0 to 6 inches; loamy fine sand Bg—6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### Berner

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November,

December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9

inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A—28 to 31 inches; sandy loam Bg—31 to 44 inches; sand 2CBkg—44 to 80 inches; loam

### Chilgren

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 9.9 inches

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; fine sandy loam E—4 to 10 inches; fine sandy loam Btg—10 to 18 inches; clay loam Bkg1,Bkg2—18 to 72 inches; loam Cg—72 to 80 inches; loam

### Major Uses of the Map Unit

· Pasture or wildlife habitat

# B204A—Roliss loam, Des Moines, 0 to 2 percent slopes

### Component Description

### Roliss and similar soils

Extent: 75 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, Months when ponding does not occur: January, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June, September, October, November) September, October, November) Available water capacity to a depth of 60 inches: 9.9 Available water capacity to a depth of 60 inches: 10.7 Content of organic matter in the upper 10 inches: 1.1 Content of organic matter in the upper 10 inches: 5 percent Typical profile: percent A—0 to 4 inches; fine sandy loam Typical profile: Ap, A-0 to 14 inches; loam E—4 to 10 inches; fine sandy loam Bg—14 to 20 inches; loam Btg—10 to 18 inches; clay loam Cg1..Cg4—20 to 80 inches; loam Bkg1,Bkg2—18 to 72 inches; loam Cg-72 to 80 inches; loam Grygla **Garnes** Extent: 8 percent of the unit Geomorphic component: Swales on lake plains; flats Extent: 5 percent of the unit on lake plains Geomorphic component: Rises on lake plains Slope range: 0 to 2 percent Slope range: 0 to 3 percent Texture of the surface layer: Loamy fine sand Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Poorly drained Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits and till Parent material: Glaciolacustrine deposits and till Flooding: None Flooding: None Shallowest depth to wet zone: 0.5 foot (April) Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 4.1 feet (August) Deepest depth to wet zone: 6.7 feet (transitory) Months when ponding does not occur: January, (August) February, March, July, August, September, Ponding: None December Available water capacity to a depth of 60 inches: 10 Deepest ponding: 0.3 foot (April, May) Available water capacity to a depth of 60 inches: 8.4 Content of organic matter in the upper 10 inches: 1.1 percent Typical profile: Content of organic matter in the upper 10 inches: 1.8 Ap—0 to 6 inches; fine sandy loam percent Typical profile: E—6 to 9 inches; loamy fine sand Ap-0 to 6 inches; loamy fine sand Bt-9 to 14 inches; clay loam Bg-6 to 26 inches; fine sand 2Bkg..2Cg-26 to 80 inches; loam C-72 to 80 inches; loam Chilgren Roliss, depressional

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Bk1,Bk2—14 to 72 inches; loam

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 10.9

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap, A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

### Hamre

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A-13 to 18 inches; loam Bg—18 to 35 inches; loam BCg,Cg—35 to 80 inches; loam

### Major Uses of the Map Unit

· Cropland, pasture, or hayland

### B205A—Berner muck, depressional, Des Moines, 0 to 1 percent slopes

### Component Description

### Berner and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A-28 to 31 inches; sandy loam Bg-31 to 44 inches; sand 2CBkg-44 to 80 inches; loam

### Northwood

Extent: 7 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa-0 to 9 inches; muck

A-9 to 14 inches; loamy fine sand Bg1,Bg2—14 to 24 inches; fine sand 2BCkg,2Cg-24 to 80 inches; loam

### Grygla

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4 inches

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

Ap—0 to 6 inches; loamy fine sand Bg—6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### Cathro

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches; muck Cg—23 to 60 inches; loam

### Hamre

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)
Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg—18 to 35 inches; loam BCg,Cg—35 to 80 inches; loam

### Seelyeville

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained Parent material: Organic material

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August) Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 25.1 inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck
Oa2..Oa5—10 to 80 inches; muck

### Major Uses of the Map Unit

• Pasture or wildlife habitat

# B206A—Hamre muck, depressional, Des Moines, 0 to 1 percent slopes

### Component Description

### Hamre and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg—18 to 35 inches; loam BCg,Cg—35 to 80 inches; loam

### Chilgren

Extent: 8 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 9.9 inches

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; fine sandy loam E—4 to 10 inches; fine sandy loam Btg—10 to 18 inches; clay loam Bkg1,Bkg2—18 to 72 inches; loam Cq—72 to 80 inches; loam

### Northwood

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)

Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa—0 to 9 inches; muck

A-9 to 14 inches; loamy fine sand

Bg1,Bg2—14 to 24 inches; loamy fine sand

2BCkg,2Cg—24 to 80 inches; loam

### Cathro

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake

plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches; muck Cg—23 to 60 inches; loam

### Grygla

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, February, March, July, August, September,

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

Ap-0 to 6 inches; loamy fine sand Bg—6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### **Roliss**

Extent: 2 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.7

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A-0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

### Major Uses of the Map Unit

· Pasture or wildlife habitat

### B207A—Pelan sandy loam, Des Moines, 0 to 3 percent slopes

### Component Description

### Pelan and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface laver: Sandy loam

Depth to restrictive feature: Very deep (more than 60

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Floodina: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August) Ponding: None

Available water capacity to a depth of 60 inches: 8.5

Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap-0 to 6 inches; sandy loam

E-6 to 9 inches; sand

Bt—9 to 14 inches; very gravelly sandy loam

Bw—14 to 20 inches; very gravelly coarse sand

2Bw-20 to 60 inches; loam

### Chilgren

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 9.9

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; fine sandy loam E—4 to 10 inches; fine sandy loam Btg—10 to 18 inches; clay loam Bkg1,Bkg2—18 to 72 inches; loam Cq—72 to 80 inches; loam

### **Garnes**

Extent: 10 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10

inches

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

Ap—0 to 6 inches; fine sandy loam E—6 to 9 inches; loamy fine sand Bt—9 to 14 inches; clay loam Bk1,Bk2—14 to 72 inches; loam C—72 to 80 inches; loam

### Eckvoll

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.3

inches

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand

E1,E2—9 to 25 inches; fine sand 2Bt—25 to 32 inches; sandy clay loam 2BCk,2C1,2C2—32 to 80 inches; loam

### Grygla

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4

inches

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

Ap—0 to 6 inches; loamy fine sand Bg—6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### Major Uses of the Map Unit

Hayland, pasture, or forestland

### B208A—Grygla loamy fine sand, Des Moines, 0 to 2 percent slopes

### Component Description

### Grygla and similar soils

Extent: 75 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January, February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

Ap—0 to 6 inches; loamy fine sand Bg—6 to 26 inches; fine sand 2Bkg..2Cg-26 to 80 inches; loam

### Chilgren

Extent: 10 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 9.9

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; fine sandy loam E-4 to 10 inches; fine sandy loam Btg-10 to 18 inches; clay loam Bkg1,Bkg2—18 to 72 inches; loam Cg—72 to 80 inches; loam

### **Eckvoll**

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand E1,E2—9 to 25 inches; fine sand 2Bt—25 to 32 inches; sandy clay loam 2BCk,2C1,2C2—32 to 80 inches; loam

### Grygla, depressional

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky loamy fine sand Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits and till

Floodina: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 3 feet (February)

Shallowest ponding: 0.2 foot (July, August, September) Deepest ponding: 0.3 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 8.4 inches

Content of organic matter in the upper 10 inches: 6.3 percent

Typical profile:

Ap—0 to 6 inches; mucky loamy fine sand

Bg-6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### Northwood

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August,

September)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December) Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa—0 to 9 inches; muck A—9 to 14 inches; loamy fine sand Bg1,Bg2—14 to 24 inches; fine sand 2BCkg,2Cg—24 to 80 inches; loam

### Major Uses of the Map Unit

· Hayland, pasture, or forestland

# B209A—Seelyeville muck, depressional, Des Moines, 0 to 1 percent slopes

### **Component Description**

### Seelyeville and similar soils

Extent: 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August) Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June)
Available water capacity to a depth of 60 inches: 25.1
inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck
Oa2..Oa5—10 to 80 inches; muck

### Cathro

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches; muck Cg—23 to 60 inches; loam

### Dora

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits or till Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 19.1 inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oe—0 to 12 inches; mucky peat Oa1,Oa2—12 to 32 inches; muck A—32 to 36 inches; mucky silty clay loam Cg1..Cg3—36 to 60 inches; silty clay

### Markey

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.1

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1..Oa4—0 to 32 inches; muck Cg—32 to 60 inches; fine sand

### Berner

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A—28 to 31 inches; sandy loam Bg-31 to 44 inches; sand 2CBkg—44 to 80 inches; loam

### Major Uses of the Map Unit

· Pasture or wildlife habitat

### B210A—Eckvoll loamy fine sand, Des Moines, 0 to 3 percent slopes

### Component Description

### Eckvoll and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August) Ponding: None

Available water capacity to a depth of 60 inches: 8.3

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand E1,E2—9 to 25 inches; fine sand 2Bt—25 to 32 inches; sandy clay loam 2BCk,2C1,2C2—32 to 80 inches; loam

### Chilgren

Extent: 12 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 9.9

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; fine sandy loam E—4 to 10 inches; fine sandy loam Btg-10 to 18 inches; clay loam Bkg1,Bkg2—18 to 72 inches; loam Cg—72 to 80 inches; loam

### Grygla

Extent: 8 percent of the unit Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

Ap—0 to 6 inches; loamy fine sand Bg—6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### Garnes

Extent: 7 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10 inches

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

Ap—0 to 6 inches; fine sandy loam E—6 to 9 inches; loamy fine sand Bt—9 to 14 inches; clay loam Bk1,Bk2—14 to 72 inches; loam C—72 to 80 inches; loam

### Pelan

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.5

Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap—0 to 6 inches; sandy loam

E-6 to 9 inches; sand

Bt—9 to 14 inches; very gravelly sandy loam Bw—14 to 20 inches; very gravelly coarse sand

2Bw-20 to 60 inches; loam

### Major Uses of the Map Unit

• Hayland, pasture, or forestland

### B211A—Berner and Cathro soils, ponded, Des Moines, 0 to 1 percent slopes

### **Component Description**

### Berner, ponded, and similar soils

Extent: 0 to 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (all year)

Ponding depth: 1 foot (all year)

Available water capacity to a depth of 60 inches: 15.9

inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A—28 to 31 inches; sandy loam Bg—31 to 44 inches; sand 2CBkg—44 to 80 inches; loam

### Cathro, ponded, and similar soils

Extent: 0 to 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic materials over glaciolacustrine deposits or till

Flooding: None

Shallowest depth to wet zone: At the surface (all year)

Ponding depth: 1 foot (all year)

Available water capacity to a depth of 60 inches: 15.9

inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches; muck Cg—23 to 60 inches; loam

### Chilgren

Extent: 0 to 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 9.9

Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; fine sandy loam E—4 to 10 inches; fine sandy loam Btg-10 to 18 inches; clay loam Bkg1,Bkg2—18 to 72 inches; loam Cg—72 to 80 inches; loam

### Grygla

Extent: 0 to 10 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits and till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4 inches

Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

Ap-0 to 6 inches; loamy fine sand Bg—6 to 26 inches; fine sand 2Bkg..2Cg—26 to 80 inches; loam

### Hamre

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg—18 to 35 inches; loam BCg,Cg-35 to 80 inches; loam

### Northwood

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)
Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa-0 to 9 inches; muck

A-9 to 14 inches; loamy fine sand

Bg1,Bg2—14 to 24 inches; loamy fine sand

2BCkg,2Cg-24 to 80 inches; loam

## Seelyeville, ponded

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic materials

Flooding: None

Shallowest depth to wet zone: At the surface (all year)

Ponding depth: 1 foot (all year)

Available water capacity to a depth of 60 inches: 25.1

inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck
Oa2..Oa5—10 to 80 inches; muck

Major Uses of the Map Unit

Wetland wildlife habitat

# I1A—Augsburg loam, 0 to 2 percent slopes

# **Component Description**

# Augsburg and similar soils

Extent: 75 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January, February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A-0 to 11 inches; loam

Bkg—11 to 18 inches; very fine sandy loam Bg1—18 to 33 inches; loamy very fine sand

2Bg2—33 to 60 inches; clay

# **Borup**

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 10.7 inches

mones

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A-0 to 12 inches; loam

Bkg, Bkyg-12 to 34 inches; silt loam

Cg—34 to 60 inches; very fine sandy loam

## **Foxlake**

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April) Deepest depth to wet zone: 3 feet (August) Months when ponding does not occur: January, February, March, December

Deepest ponding: 0.3 foot (April, May, June, November)

Available water capacity to a depth of 60 inches: 8.9

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap, A-0 to 19 inches; loam Bg—19 to 38 inches; silty clay Bkg-38 to 49 inches; clay Cg-49 to 80 inches; clay

## Augsburg, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky loam

Depth to restrictive feature: Very deep (more than 60

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits over till

Floodina: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 3 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 10.3

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap,A—0 to 11 inches; mucky loam

Bkg—11 to 18 inches; very fine sandy loam Bg1—18 to 33 inches; very fine sandy loam

2Bg2—33 to 60 inches; clay

## Wheatville

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Very fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.3 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.4

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; very fine sandy loam Bk1,Bk2—9 to 31 inches; very fine sandy loam 2C1..2C4—31 to 80 inches; clay

# **Glyndon**

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Very fine sandy loam Depth to restrictive feature: Very deep (more than 60

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1 foot (April) Deepest depth to wet zone: 6.7 feet (transitory) (August)

Pondina: None

Available water capacity to a depth of 60 inches: 10.4

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,Ak—0 to 11 inches; very fine sandy loam Bk1,Bk2—11 to 28 inches; loam C,Cg—28 to 60 inches; loamy very fine sand

# Espelie

Extent: 1 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.1 inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bw1,Bw2—9 to 24 inches; fine sand 2Bg..2Cg—24 to 80 inches; clay

### Hattie

Extent: 1 percent of the unit

Geomorphic component: Escarpments on lake plains

Position on the landform: Summits Slope range: 1 to 3 percent Texture of the surface layer: Clay

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.1 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(February) Ponding: None

Available water capacity to a depth of 60 inches: 7.7

Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 8 inches; clay Bk—8 to 22 inches; silty clay C—22 to 80 inches; clay

## Major Uses of the Map Unit

Cropland

# I3A—Berner muck, 0 to 1 percent slopes

# Component Description

### Berner and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July,

August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A—28 to 31 inches; sandy loam Bg—31 to 44 inches; sand 2CBkg—44 to 80 inches; loam

## Northwood

Extent: 7 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa-0 to 9 inches; muck

A—9 to 14 inches; loamy fine sand Bg1,Bg2—14 to 24 inches; fine sand 2BCkg,2Cg—24 to 80 inches; loam

## Kratka

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

### Hamre

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December) Available water capacity to a depth of 60 inches: 13.3

Available water capacity to a depth of 60 inches: 13.3 inches

Content of organic matter in the upper 10 inches: 85

percent Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg1,Bg2—18 to 71 inches; loam Cq—71 to 80 inches; loam

#### Strathcona

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

## Seelyeville

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August)
Shallowest ponding: 0.3 foot (January, February, July,
August, September, October, November,
December)

Deepest ponding: 0.5 foot (March, April, May, June)

Available water capacity to a depth of 60 inches: 25.1 inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck
Oa2..Oa5—10 to 80 inches; muck

# Major Uses of the Map Unit

• Pasture, hayland, or wildlife habitat

# I4A—Berner, Rosewood, and Strathcona soils, seepy, 0 to 2 percent slopes

# Component Description

## Berner and similar soils

Extent: 0 to 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A-28 to 31 inches; sandy loam Bg—31 to 44 inches; sand 2CBkg-44 to 80 inches; loam

# Rosewood, depressional, and similar soils

Extent: 0 to 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April) Deepest depth to wet zone: 3 feet (February, August) Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 6.2 inches

Content of organic matter in the upper 10 inches: 8.2 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam Bkg1,Bkg2—8 to 18 inches; fine sandy loam Cg1..Cg3—18 to 80 inches; fine sand

## Strathcona, depressional, and similar soils

Extent: 0 to 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Mucky fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February, August) Shallowest ponding: 0.3 foot (July, August, September,

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 9.9

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap—0 to 10 inches; mucky fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

### Rosewood

Extent: 0 to 10 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.9 feet (August) Months when ponding does not occur: January, February, March, July, August, September, November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam Bkg1,Bkg2—8 to 18 inches; fine sandy loam Cg1..Cg3—18 to 80 inches; fine sand

## Deerwood

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 7.1 inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:

Oa—0 to 10 inches; muck A—10 to 12 inches; loamy sand Cg1,Cg2—12 to 60 inches; sand

### Mavie

Extent: 0 to 10 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 7.4 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 12 inches; fine sandy loam Bk—12 to 18 inches; sandy loam

2C1,2C2—18 to 39 inches; very gravelly coarse

sand

3C3—39 to 80 inches; loam

## Strathcona

Extent: 0 to 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

# Major Uses of the Map Unit

· Pasture, hayland, or wildlife habitat

# I5A—Borup loam, 0 to 2 percent slopes

# **Component Description**

# Borup and similar soils

Extent: 75 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 12 inches; loam Bkg,Bkyg—12 to 34 inches; silt loam Cq—34 to 60 inches; very fine sandy loam

## Glyndon

Extent: 9 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Very fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1 foot (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.4 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,Ak—0 to 11 inches; very fine sandy loam

Bk1,Bk2—11 to 28 inches; loam

C,Cg-28 to 60 inches; loamy very fine sand

### Rosewood

Extent: 8 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.9 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam Bkg1,Bkg2—8 to 18 inches; fine sandy loam Cg1..Cg3—18 to 80 inches; fine sand

# **Augsburg**

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 11 inches; loam

Bkg—11 to 18 inches; very fine sandy loam

Bg1—18 to 33 inches; loamy very fine sand

2Bg2-33 to 60 inches; clay

# Augsburg, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 3 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 10.3 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap,A—0 to 11 inches; mucky loam

Bkg—11 to 18 inches; very fine sandy loam

Bg1—18 to 33 inches; very fine sandy loam

2Bg2-33 to 60 inches; clay

## Major Uses of the Map Unit

Cropland

# I7A—Bowstring-Fluvaquents complex, 0 to 2 percent slopes, frequently flooded

## Component Description

## Bowstring and similar soils

Extent: 45 percent of the unit

Geomorphic component: Swales on flood plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over alluvium Months in which flooding does not occur: January, February, December

Highest frequency of flooding: Very frequent (April, May)

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 21.4 inches

Content of organic matter in the upper 10 inches: 65 percent

Typical profile:

Oa1,Oa2—0 to 38 inches; muck

Cg—38 to 47 inches; stratified sand to fine sandy loam

O'a-47 to 80 inches; muck

## Fluvaquents and similar soils

Extent: 45 percent of the unit

Geomorphic component: Flats on flood plains; swales

on flood plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Alluvium

Months in which flooding does not occur: January,

February, December

Highest frequency of flooding: Very frequent (April, May)

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August) Shallowest ponding: 0.5 foot (January, February,

March, June, July, August, September, October, November, December)

Deepest ponding: 0.7 foot (April, May)

Available water capacity to a depth of 60 inches: 8.1 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

A-0 to 16 inches; fine sandy loam

Cg—16 to 80 inches; stratified loamy sand to silt loam

## Hapludolls

Extent: 5 percent of the unit

Geomorphic component: Escarpments in drainageways; hillslopes in drainageways

Slope range: 2 to 30 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Glaciolacustrine deposits and/or till Months in which flooding does not occur: January, February, December

Highest frequency of flooding: Rare (March, April, May, June, September, October, November)

Shallowest depth to wet zone: 6.7 feet (transitory) (March, April, May, November)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August, September, October, December)

Pondina: None

Available water capacity to a depth of 60 inches: 10.4 inches

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

A—0 to 9 inches; loam C—9 to 60 inches; loam

## Water

Extent: 5 percent of the unit

# Major Uses of the Map Unit

Wetland wildlife habitat

# I8A—Cathro muck, 0 to 1 percent slopes

## Component Description

# Cathro and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches; muck Cg—23 to 60 inches; loam

### Hamre

Extent: 8 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)

Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg1,Bg2—18 to 71 inches; loam Cq—71 to 80 inches; loam

## **Northwood**

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)
Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa—0 to 9 inches; muck

A—9 to 14 inches; loamy fine sand Bg1,Bg2—14 to 24 inches; fine sand 2BCkg,2Cg—24 to 80 inches; loam

### **Roliss**

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

### **Berner**

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November,

December)

Deepest ponding: 0.5 foot (March, April, May, June)

Available water capacity to a depth of 60 inches: 15.9

inches

Content of organic matter in the upper 10 inches: 85

percent Typical profile:

Oa1,Oa2—0 to 28 inches; muck

A-28 to 31 inches; sandy loam

Bg-31 to 44 inches; sand

2CBkg-44 to 80 inches; loam

#### Kratka

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

inches

Content of organic matter in the upper 10 inches: 6

percent Typical profile:

Ap,A—0 to 11 inches; fine sandy loam

Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand

2Cg2..2Cg4—25 to 80 inches; loam

# Seelyeville

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 1.6 feet (February, August)

Shallowest ponding: 0.3 foot (January, February, July,

August, September, October, November,

December)

Deepest ponding: 0.5 foot (March, April, May, June)

Available water capacity to a depth of 60 inches: 25.1

inches

Content of organic matter in the upper 10 inches: 90

percent

Typical profile:

Oa1—0 to 10 inches; muck

Oa2..Oa5—10 to 80 inches; muck

# Major Uses of the Map Unit

• Pasture, hayland, or wildlife habitat

# I9A—Clearwater clay, 0 to 2 percent slopes

## **Component Description**

### Clearwater and similar soils

Extent: 80 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Clay

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)

Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 8.2

inches

Content of organic matter in the upper 10 inches: 4.2

percent Typical profile:

ypicai pronie.

Ap—0 to 8 inches; clay

Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay

# Clearwater, very cobbly

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Clay

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)
Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 8.2

inches

Content of organic matter in the upper 10 inches: 4.2 percent

Typical profile:

Ap—0 to 8 inches; clay

Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay

### Reis

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; rises on

lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Clay

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.6 feet (August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3

Content of organic matter in the upper 10 inches: 4.7 percent

Typical profile:

Ap—0 to 9 inches; clay

A/Bk—9 to 17 inches; clay

Bkss1,Bkss2—17 to 33 inches; clay

Bkg—33 to 42 inches; clay Cg1,Cg2—42 to 60 inches; clay

C—60 to 80 inches; clay

# Clearwater, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 1.6 feet (February, August)

Ponding depth: 0.5 foot (all year)

Available water capacity to a depth of 60 inches: 9

inches

Content of organic matter in the upper 10 inches: 8.4

percent Typical profile:

> Ap—0 to 8 inches; mucky clay loam Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay

## **Espelie**

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.1

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bw1,Bw2—9 to 24 inches; fine sand 2Bq,2Cq—24 to 80 inches; clay

### **Foxlake**

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August) Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 8.9

Content of organic matter in the upper 10 inches: 5

percent Typical profile:

> Ap,A—0 to 19 inches; loam Bg—19 to 38 inches; silty clay Bkg—38 to 49 inches; clay Cg—49 to 80 inches; clay

Hattie

Extent: 1 percent of the unit

Geomorphic component: Escarpments on lake plains

Position on the landform: Summits Slope range: 1 to 3 percent Texture of the surface layer: Clay

Depth to restrictive feature: Very deep (more than 60

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.1 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(February) Pondina: None

Available water capacity to a depth of 60 inches: 7.7

Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap-0 to 8 inches; clay Bk—8 to 22 inches; silty clay C-22 to 80 inches; clay

Huot

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August) Ponding: None

Available water capacity to a depth of 60 inches: 7.6

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap, Ak—0 to 14 inches; fine sandy loam Bk-14 to 26 inches; loamy fine sand C1—26 to 34 inches; fine sand 2C2,2C3—34 to 80 inches; clay

# Major Uses of the Map Unit

Cropland

# I11A—Deerwood muck, 0 to 1 percent slopes

# Component Description

### Deerwood and similar soils

Extent: 85 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April. May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 7.1 inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:

Oa-0 to 10 inches: muck A—10 to 12 inches: loamy sand Cg1,Cg2—12 to 60 inches; sand

## Rosewood

Extent: 6 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.9 feet (August) Months when ponding does not occur: January, February, March, July, August, September, November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam

Bkg1,Bkg2—8 to 18 inches; fine sandy loam

Cg1..Cg3—18 to 80 inches; fine sand

# Markey

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.1

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1..Oa4—0 to 32 inches; muck Cg—32 to 60 inches; fine sand

#### Strathcona

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

## Syrene

Extent: 2 percent of the unit

Geomorphic component: Swales on beach plains; flats

on beach plains Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 3.8 inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; sandy loam Bkg1—9 to 17 inches; sandy loam

2Bkg2—17 to 27 inches; stratified loamy fine sand to gravelly coarse sand

2Cg—27 to 60 inches; stratified loamy fine sand to gravelly coarse sand

# Venlo

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April)
Deepest depth to wet zone: 3 feet (February, August)
Shallowest ponding: 0.3 foot (July, August, September,
October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 5.4 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

A—0 to 13 inches; fine sandy loam Cg1,Cg2—13 to 60 inches; fine sand

# Major Uses of the Map Unit

Pasture, hayland, or wildlife habitat

# I12A—Eckvoll loamy fine sand, 0 to 3 percent slopes

# Component Description

# Eckvoll and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand E1,E2—9 to 25 inches; fine sand 2Bt—25 to 32 inches; sandy clay loam 2BCk,2C1,2C2—32 to 80 inches; loam

#### Kratka

Extent: 8 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January, February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam

Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

## **Smiley**

Extent: 7 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.8 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap-0 to 12 inches; loam

Btg—12 to 19 inches; clay loam

Bkg1..Bkg3—19 to 42 inches; loam

Cg1,Cg2—42 to 80 inches; loam

#### Linveldt

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits over till Flooding: None Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 8.9 Content of organic matter in the upper 10 inches: 2.8 percent Typical profile: Ap—0 to 9 inches; fine sandy loam Bt—9 to 16 inches; loam 2Bw1,2Bw2—16 to 29 inches; sand 3Bk-29 to 45 inches: loam 3C1..3C3-45 to 80 inches; loam Reiner Extent: 5 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 Drainage class: Moderately well drained Parent material: Till Flooding: None Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 10.2 Content of organic matter in the upper 10 inches: 2.3 percent Typical profile: Ap—0 to 7 inches; fine sandy loam Bt—7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches; loam **Foldahl** Extent: 2 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits over till Flooding: None Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 8.3 Content of organic matter in the upper 10 inches: 3 percent Typical profile: Ap,A—0 to 12 inches; loamy fine sand Bw1,Bw2—12 to 30 inches; fine sand 2BCk..2C3—30 to 80 inches: loam Pelan Extent: 2 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Texture of the surface layer: Sandy loam Depth to restrictive feature: Very deep (more than 60 Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits over till Flooding: None Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 8.5 Content of organic matter in the upper 10 inches: 1.4 percent Typical profile: Ap-0 to 6 inches; sandy loam E—6 to 9 inches; sand Bt—9 to 14 inches; very gravelly sandy loam Bw—14 to 20 inches; very gravelly coarse sand 2Bw-20 to 60 inches; loam **Poppleton** Extent: 1 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Fine sand Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits Flooding: None Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)

Ponding: None

Available water capacity to a depth of 60 inches: 5 inches

Content of organic matter in the upper 10 inches: 1 percent

Typical profile:

Ap—0 to 6 inches; fine sand E—6 to 9 inches; fine sand

Bw1..Bw4—9 to 40 inches; fine sand C1,C2—40 to 60 inches; fine sand

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I13A—Espelie fine sandy loam, 0 to 2 percent slopes

# **Component Description**

## Espelie and similar soils

Extent: 75 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.1

inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bw1,Bw2—9 to 24 inches; fine sand 2Bg..2Cg—24 to 80 inches; clay

## **Foxlake**

Extent: 8 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till

Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)

Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 8.9

inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap, A-0 to 19 inches; loam

Bg—19 to 38 inches; silty clay

Bkg—38 to 49 inches; clay

Cg-49 to 80 inches; clay

### Hilaire

Extent: 7 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 6.4

inches

Content of organic matter in the upper 10 inches: 3

percent Typical profile:

Ap,A—0 to 10 inches; fine sandy loam

Bw1..Bw4—10 to 34 inches; fine sand

2BCk-34 to 80 inches; clay

### Clearwater, depressional

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 1.6 feet (February, August)

Ponding depth: 0.5 foot (all year)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 8.4 percent

Typical profile:

Ap—0 to 8 inches; mucky clay loam Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay

### **Thiefriver**

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.5

inches
Content of organic matter in the upper 10 inches: 6

percent Typical profile:

Ap,A—0 to 12 inches; fine sandy loam

Bkg1..Bkg3—12 to 23 inches; loamy fine sand

Cg1—23 to 32 inches; fine sand 2Cg2,2Cg3—32 to 80 inches; clay

# Major Uses of the Map Unit

Cropland, pasture, or hayland

# I15A—Flaming loamy fine sand, 0 to 3 percent slopes

# **Component Description**

## Flaming and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 4.9 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

## Garborg

Extent: 10 percent of the unit

Geomorphic component: Rises on lake plains; flats on

lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.2

inches

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

Ap, A-0 to 12 inches; loamy fine sand

Bw1..Bw3—12 to 41 inches; loamy fine sand

BCk—41 to 59 inches; fine sand C1,C2—59 to 80 inches; fine sand

#### Hamar

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.9 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5 inches Content of organic matter in the upper 10 inches: 6 percent Typical profile: A1,A2—0 to 12 inches; loamy fine sand AC—12 to 17 inches; loamy fine sand C1,C2-17 to 40 inches; fine sand Ab—40 to 47 inches: loamy fine sand Cg—47 to 60 inches; fine sand Ulen Extent: 5 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits Flooding: None Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: More than 6.7 feet (August) Ponding: None Available water capacity to a depth of 60 inches: 5.8 Content of organic matter in the upper 10 inches: 2.8 percent Typical profile: Ap—0 to 9 inches; fine sandy loam Bk1,Bk2-9 to 42 inches; loamy fine sand C-42 to 60 inches: fine sand **Poppleton** Extent: 3 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Fine sand Depth to restrictive feature: Very deep (more than 60 Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits Flooding: None Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: More than 6.7 feet (July, August) Ponding: None Available water capacity to a depth of 60 inches: 5 Content of organic matter in the upper 10 inches: 1

percent

Typical profile: Ap—0 to 6 inches; fine sand E—6 to 9 inches; fine sand Bw1..Bw4—9 to 40 inches: fine sand C1,C2-40 to 60 inches; fine sand Sandberg Extent: 3 percent of the unit Geomorphic component: Beach ridges Position on the landform: Shoulders, summits, and backslopes Slope range: 1 to 6 percent Texture of the surface layer: Loamy sand Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Excessively drained Parent material: Beach deposits Flooding: None Depth to wet zone: More than 6.7 feet (all year) Ponding: None Available water capacity to a depth of 60 inches: 3.1 Content of organic matter in the upper 10 inches: 2 percent Typical profile: Ap, A-0 to 12 inches; loamy sand Bw-12 to 19 inches; gravelly loamy coarse Bk-19 to 29 inches; gravelly coarse sand C-29 to 80 inches; gravelly coarse sand Foldahl Extent: 2 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Texture of the surface layer: Loamy fine sand Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits over till Flooding: None Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 8.3 Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand

Bw1,Bw2—12 to 30 inches; fine sand 2BCk..2C3—30 to 80 inches; loam

### Radium

Extent: 2 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August) Ponding: None

Available water capacity to a depth of 60 inches: 3.8

Content of organic matter in the upper 10 inches: 2

percent Typical profile:

> Ap—0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1—33 to 43 inches; very gravelly coarse sand

C2..C4—43 to 80 inches; sand

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I16F—Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes

# Component Description

## Fluvaquents and similar soils

Extent: 55 percent of the unit

Geomorphic component: Swales on flood plains; flats

on flood plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Alluvium

Months in which flooding does not occur: January,

February, December

Highest frequency of flooding: Very frequent (April,

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February,

August)

Shallowest ponding: 0.5 foot (January, February,

March, June, July, August, September, October, November, December)

Deepest ponding: 0.7 foot (April, May)

Available water capacity to a depth of 60 inches: 8.1

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

A—0 to 16 inches; fine sandy loam

Cg—16 to 80 inches; stratified loamy sand to silt loam

# Hapludolls and similar soils

Extent: 25 percent of the unit

Geomorphic component: Escarpments in drainageways; hillslopes in drainageways

Slope range: 2 to 30 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Well drained

Parent material: Glaciolacustrine deposits and/or till Months in which flooding does not occur: January,

February, December

Highest frequency of flooding: Rare (March, April, May, June, September, October, November)

Shallowest depth to wet zone: 6.7 feet (transitory) (March, April, May, November)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August, September, October, December)

Pondina: None

Available water capacity to a depth of 60 inches: 10.4

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

A—0 to 9 inches; loam C—9 to 60 inches; loam

# Hapludalfs

Extent: 7 percent of the unit

Geomorphic component: Hillslopes in drainageways; escarpments in drainageways

Slope range: 3 to 60 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits and till Months in which flooding does not occur: January,

February, December

Highest frequency of flooding: Rare (March, April, May, June, September, October, November)

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.1 inches

Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 6 inches; fine sandy loam E—6 to 8 inches; fine sandy loam Bt1,Bt2—8 to 25 inches; silty clay loam C1,C2—25 to 80 inches; silt loam

#### **Fairdale**

Extent: 5 percent of the unit

Geomorphic component: Stream terraces; rises on flood plains

Slope range: 6 to 15 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Alluvium

Months in which flooding does not occur: January,

February, November, December

Highest frequency of flooding: Occasional (March, April, May, June)

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 12.3 inches

Content of organic matter in the upper 10 inches: 3.4 percent

Typical profile:

Ap—0 to 7 inches; silt loam

C1..C3—7 to 48 inches; stratified very fine sandy loam to silty clay loam

Ab1,Ab2—48 to 67 inches; silty clay loam C´—67 to 80 inches; stratified very fine sandy loam to silty clay loam

## Water

Extent: 5 percent of the unit

# Bowstring

Extent: 2 percent of the unit

Geomorphic component: Swales on flood plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over alluvium Months in which flooding does not occur: January, February, December

Highest frequency of flooding: Very frequent (April, May)

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, December)

Deepest ponding: 0.5 foot (March, April, May, June, November)

Available water capacity to a depth of 60 inches: 21.4 inches

Content of organic matter in the upper 10 inches: 65 percent

Typical profile:

Oa1,Oa2—0 to 38 inches; muck

Cg—38 to 47 inches; stratified sand to fine sandy loam

O'a-47 to 80 inches; muck

## Rauville

Extent: 1 percent of the unit

Geomorphic component: Oxbows on flood plains

Slope range: 0 to 2 percent

Texture of the surface layer: Silty clay loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Alluvium

Months in which flooding does not occur: January, February, December

Highest frequency of flooding: Very frequent (April, May)

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August)
Shallowest ponding: 0.5 foot (January, February,
March, June, July, August, September, October,
November, December)

Deepest ponding: 0.7 foot (April, May)

Available water capacity to a depth of 60 inches: 10.9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

A1,A2—0 to 27 inches; silty clay loam Cg—27 to 45 inches; silty clay loam

2Cg—45 to 60 inches; stratified gravelly loamy sand to clay loam

# Major Uses of the Map Unit

Wildlife habitat or recreation

# I17A—Foldahl fine sandy loam, 0 to 3 percent slopes

# Component Description

## Foldahl and similar soils

Extent: 75 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.8

inches

Content of organic matter in the upper 10 inches: 3

percent Typical profile:

Ap,A—0 to 12 inches; fine sandy loam Bw1,Bw2—12 to 30 inches; fine sand 2BCk..2C3—30 to 80 inches; loam

## Kratka

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

### Roliss

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

## **Flaming**

Extent: 4 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 4.9

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

#### Grimstad

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.2

inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bk1,Bk2—9 to 22 inches; loamy fine sand

C1—22 to 28 inches; fine sand 2C2,2C3—28 to 60 inches; loam

## Linveldt

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.9

inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt-9 to 16 inches; loam

2Bw1,2Bw2—16 to 29 inches; sand

3Bk-29 to 45 inches; loam

3C1..3C3—45 to 80 inches; loam

### Eckvoll

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3

inches

Content of organic matter in the upper 10 inches: 1.9

percent
Typical profile:

Ap—0 to 9 inches; loamy fine sand

E1,E2—9 to 25 inches; fine sand

2Bt—25 to 32 inches; sandy clay loam

2BCk,2C1,2C2—32 to 80 inches; loam

# Strathcona

Extent: 1 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam

Bkg—10 to 17 inches; fine sandy loam

Cg1—17 to 28 inches; fine sand

2Cg2,2Cg3—28 to 80 inches; loam

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I18A—Foldahl loamy fine sand, 0 to 3 percent slopes

# Component Description

# Foldahl and similar soils

Extent: 75 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.3

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand Bw1,Bw2—12 to 30 inches; fine sand 2BCk..2C3—30 to 80 inches; loam

## Kratka

Extent: 10 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

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Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam

Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

### **Roliss**

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December *Deepest ponding:* 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.7

inches

Content of organic matter in the upper 10 inches: 5

percent Typical profile:

Ap,A—0 to 14 inches; loam

Bg—14 to 20 inches; loam

Cg1..Cg4—20 to 80 inches; loam

### **Flaming**

Extent: 4 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand BA—12 to 17 inches; fine sand

Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

### Grimstad

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.2

inches

Content of organic matter in the upper 10 inches: 2.8

percent Typical profile:

Ap-0 to 9 inches; fine sandy loam

Bk1,Bk2—9 to 22 inches; loamy fine sand

C1—22 to 28 inches; fine sand 2C2,2C3—28 to 60 inches; loam

## Linveldt

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface laver: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.9

inches

Content of organic matter in the upper 10 inches: 2.8

percent Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt—9 to 16 inches; loam

2Bw1,2Bw2—16 to 29 inches; sand

3Bk—29 to 45 inches; loam

3C1..3C3—45 to 80 inches; loam

### Eckvoll

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3

inches

Content of organic matter in the upper 10 inches: 1.9

percent Typical profile:

Ap-0 to 9 inches; loamy fine sand

E1,E2—9 to 25 inches; fine sand

2Bt—25 to 32 inches; sandy clay loam

2BCk,2C1,2C2—32 to 80 inches; loam

## Strathcona

Extent: 1 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam

Bkg—10 to 17 inches; fine sandy loam

Cg1—17 to 28 inches; fine sand

2Cg2,2Cg3—28 to 80 inches; loam

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I19A—Foxhome sandy loam, 0 to 3 percent slopes

# Component Description

## Foxhome and similar soils

Extent: 65 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.6 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap—0 to 10 inches; sandy loam Bw1—10 to 15 inches; sand

2Bw2—15 to 23 inches; very gravelly coarse sand

3C1..3C3—23 to 80 inches; loam

## **Kittson**

Extent: 10 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.5

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap-0 to 10 inches; loam

Bw—10 to 17 inches; fine sandy loam

2Bk1,2Bk2—17 to 36 inches; loam 2C—36 to 60 inches; loam

# Strandquist

Extent: 10 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 9.3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; loam

2Bg1—10 to 20 inches; very gravelly sand

3Bg2,3Cg—20 to 60 inches; loam

### **Foldahl**

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.8

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; fine sandy loam Bw1,Bw2—12 to 30 inches; fine sand 2BCk..2C3—30 to 80 inches; loam

## Grimstad

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains
Slope range: 0 to 3 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.2 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bk1,Bk2—9 to 22 inches; loamy fine sand C1—22 to 28 inches; fine sand 2C2,2C3—28 to 60 inches; loam

#### Roliss

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,
September, October, November)

Available water capacity to a depth of 60 inches: 10.7

inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

#### Mavie

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 7.4 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 12 inches; fine sandy loam Bk—12 to 18 inches; sandy loam 2C1,2C2—18 to 39 inches; very gravelly coarse sand 3C3—39 to 80 inches; loam

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I20A—Foxlake loam, 0 to 2 percent slopes

# Component Description

## Foxlake and similar soils

Extent: 75 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)

Months when ponding does not occur: January,
February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 8.9 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 19 inches; loam Bg—19 to 38 inches; silty clay

Bkg—38 to 49 inches; clay Cg—49 to 80 inches; clay

#### Clearwater

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Clay

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)

Months when ponding does not occur: January,
February, March, December

Deepest ponding: 0.3 foot (April, May, June, November)

Available water capacity to a depth of 60 inches: 8.2 inches

Content of organic matter in the upper 10 inches: 4.2 percent

Typical profile:

Ap—0 to 8 inches; clay Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay

## Foxlake, very cobbly

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)

Months when ponding does not occur: January,
February, March, December

Deepest ponding: 0.3 foot (April, May, June, November)

Available water capacity to a depth of 60 inches: 8.9 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 19 inches; loam Bg—19 to 38 inches; silty clay

Bkg—38 to 49 inches; clay Cg—49 to 80 inches; clay

## Augsburg

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 11 inches; loam

Bkg—11 to 18 inches; very fine sandy loam Bg1—18 to 33 inches; loamy very fine sand

2Bg2-33 to 60 inches; clay

### Clearwater, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 1.6 feet (February,

August)

Ponding depth: 0.5 foot (all year)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 8.4 percent

Typical profile:

Ap—0 to 8 inches; mucky clay loam Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay

# **Espelie**

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.1

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bw1,Bw2—9 to 24 inches; fine sand 2Bg..2Cg—24 to 80 inches; clay

### Hilaire

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 6.4

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 10 inches; fine sandy loam Bw1..Bw4—10 to 34 inches; fine sand 2BCk—34 to 80 inches; clay

#### Reis

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains; flats on

lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Clay Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.6 feet (August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3

inches

Content of organic matter in the upper 10 inches: 4.7 percent

Typical profile:

Ap—0 to 9 inches; clay A/Bk—9 to 17 inches; clay

Bkss1,Bkss2—17 to 33 inches; clay

Bkg—33 to 42 inches; clay Cg1,Cg2—42 to 60 inches; clay

C—60 to 80 inches; clay

## Wheatville

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Very fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.3 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.4 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; very fine sandy loam Bk1,Bk2—9 to 31 inches; very fine sandy loam 2C1..2C4—31 to 80 inches; clay

# Major Uses of the Map Unit

Cropland

# I22A—Glyndon loam, 0 to 2 percent slopes

# Component Description

# Glyndon and similar soils

Extent: 75 percent of the unit Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1 foot (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.4 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 11 inches; loam Bk1,Bk2—11 to 28 inches; loam

C,Cg-28 to 60 inches; loamy very fine sand

# **Borup**

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 12 inches; loam Bkg,Bkyg—12 to 34 inches; silt loam Cg—34 to 60 inches; very fine sandy loam

# **Augsburg**

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A-0 to 11 inches; loam

Bkg—11 to 18 inches; very fine sandy loam Bg1—18 to 33 inches; very fine sandy loam

2Bg2—33 to 60 inches; clay

### Ulen

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April)

Deepest depth to wet zone: More than 6.7 feet
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.8 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bk1,Bk2—9 to 42 inches; loamy fine sand C—42 to 60 inches; fine sand

## Wheatville

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Very fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.3 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.4 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; very fine sandy loam Bk1,Bk2—9 to 31 inches; very fine sandy loam 2C1..2C4—31 to 80 inches; clay

## **Flaming**

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 4.9 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A-0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

# Major Uses of the Map Unit

Cropland

# I24A—Grimstad fine sandy loam, 0 to 3 percent slopes

# Component Description

## Grimstad and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.2 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bk1,Bk2—9 to 22 inches; loamy fine sand C1—22 to 28 inches; fine sand

C1—22 to 28 inches; fine sand 2C2,2C3—28 to 60 inches; loam

### Strathcona

Extent: 12 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

nches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

## **Foldahl**

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None Available water capacity to a depth of 60 inches: 8.8 Content of organic matter in the upper 10 inches: 3 percent Typical profile: Ap,A—0 to 12 inches; fine sandy loam Bw1,Bw2—12 to 30 inches; fine sand 2BCk..2C3—30 to 80 inches; loam Hamerly Extent: 5 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60 Drainage class: Somewhat poorly drained Parent material: Till Flooding: None Shallowest depth to wet zone: 1.3 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 10.5 Content of organic matter in the upper 10 inches: 2.5 percent Typical profile: Ap-0 to 8 inches; loam Bk1,Bk2—8 to 25 inches; loam C-25 to 60 inches; loam **Foxhome** Extent: 2 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Texture of the surface layer: Sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits over till Floodina: None Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 8.6 Typical profile: Content of organic matter in the upper 10 inches: 3 percent Typical profile: Ap-0 to 10 inches; sandy loam Bw1—10 to 15 inches; sand

2Bw2—15 to 23 inches; very gravelly coarse sand 3C1..3C3-23 to 80 inches; loam Karlsruhe Extent: 2 percent of the unit Geomorphic component: Rises on beach plains Slope range: 0 to 3 percent Texture of the surface layer: Sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Somewhat poorly drained Parent material: Beach deposits Flooding: None Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 5.2 Content of organic matter in the upper 10 inches: 4 percent Typical profile: A,Ak,ABk—0 to 15 inches; sandy loam Bk,BCk-15 to 30 inches; loamy sand C1..C2-30 to 60 inches: coarse sand Mavie Extent: 2 percent of the unit Geomorphic component: Flats on lake plains; swales on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Poorly drained Parent material: Glaciolacustrine deposits over till Flooding: None Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, February, March, July, August, September, November, December Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 7.4 inches Content of organic matter in the upper 10 inches: 6

percent

sand

Ap—0 to 12 inches; fine sandy loam

2C1,2C2—18 to 39 inches; very gravelly coarse

Bk-12 to 18 inches; sandy loam

3C3-39 to 80 inches; loam

### Ulen

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.8

inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bk1,Bk2—9 to 42 inches; loamy fine sand

C-42 to 60 inches; fine sand

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I25A—Hamar loamy fine sand, 0 to 2 percent slopes

# Component Description

## Hamar and similar soils

Extent: 75 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.9 feet (August)

Months when ponding does not occur: January, February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 5 inches

inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile: A1,A2—0 t

A1,A2—0 to 12 inches; loamy fine sand AC—12 to 17 inches; loamy fine sand C1,C2—17 to 40 inches; fine sand

Ab—40 to 47 inches; loamy fine sand

Cg-47 to 60 inches; fine sand

## Garborg

Extent: 10 percent of the unit

Geomorphic component: Flats on lake plains; rises on

lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.2

inches

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

Ap,A-0 to 12 inches; loamy fine sand

Bw1..Bw3—12 to 41 inches; loamy fine sand

BCk—41 to 59 inches; fine sand C1.C2—59 to 80 inches; fine sand

## Rosewood

Extent: 7 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.9 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 5.6

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam

Bkg1,Bkg2—8 to 18 inches; fine sandy loam

Cg1..Cg3—18 to 80 inches; fine sand

#### Venlo

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (February, August)

Shallowest ponding: 0.3 foot (July, August, September,

October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 5.4

inches

Content of organic matter in the upper 10 inches: 10

percent

Typical profile:

A—0 to 13 inches; fine sandy loam Cg1,Cg2—13 to 60 inches; fine sand

# **Flaming**

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

inches

Content of organic matter in the upper 10 inches: 3

percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand

BA-12 to 17 inches; fine sand

Bw-17 to 27 inches; fine sand

C1,C2-27 to 60 inches; fine sand

# Hangaard

Extent: 2 percent of the unit

Geomorphic component: Flats on beach plains; swales

on beach plains

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 3

inches

Content of organic matter in the upper 10 inches: 6

percent Typical profile:

Ap—0 to 10 inches; sandy loam A—10 to 15 inches; loamy sand

Cq1..Cq5—15 to 80 inches; coarse sand

## Kratka

Extent: 1 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,

February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam

Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand

2Cg2..2Cg4—25 to 80 inches; loam

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I26A—Hamerly loam, 0 to 2 percent slopes

# Component Description

# Hamerly and similar soils

Extent: 75 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 1.3 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.5

inches

Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 8 inches; loam Bk1,Bk2—8 to 25 inches; loam C—25 to 60 inches; loam

## **Vallers**

Extent: 12 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.6

inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

A1,A2—0 to 12 inches; loam Bkg1,Bkg2—12 to 21 inches; loam Cg1,Cg2—21 to 60 inches; loam

#### Foxhome

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.6

inches

Content of organic matter in the upper 10 inches: 3

percent

Typical profile:

Ap—0 to 10 inches; sandy loam Bw1—10 to 15 inches; sand

2Bw2—15 to 23 inches; very gravelly coarse

sand

3C1..3C3—23 to 80 inches; loam

### Grimstad

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.2 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bk1,Bk2—9 to 22 inches; loamy fine sand

C1—22 to 28 inches; fine sand 2C2,2C3—28 to 60 inches; loam

# Hamerly, very cobbly

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 1.3 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.5

nches

Content of organic matter in the upper 10 inches: 2.5

percent Typical profile:

Ap—0 to 8 inches; loam Bk1,Bk2—8 to 25 inches; loam C—25 to 60 inches; loam

## Strathcona

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

# Roliss, depressional

Extent: 1 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 10.9 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I27A—Hamre muck, 0 to 1 percent slopes

# **Component Description**

### Hamre and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August,

September)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg1,Bg2—18 to 71 inches; loam Cg—71 to 80 inches; loam

## Northwood

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent
Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa-0 to 9 inches; muck

A—9 to 14 inches; loamy fine sand Bg1,Bg2—14 to 24 inches; fine sand 2BCkg,2Cg—24 to 80 inches; loam

## Roliss

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

# **Smiley**

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.8

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam

Btg—12 to 19 inches; clay loam

Bkg1..Bkg3—19 to 42 inches; loam

Cg1,Cg2—42 to 80 inches; loam

## Cathro

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches; muck Cg—23 to 60 inches; loam

#### Kratka

Extent: 2 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

## Major Uses of the Map Unit

• Pasture, hayland, or wildlife habitat

## I32A—Hilaire fine sandy loam, 0 to 3 percent slopes

## **Component Description**

## Hilaire and similar soils

Extent: 75 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 6.9

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 10 inches; fine sandy loam Bw1..Bw4—10 to 34 inches; fine sand

2BCk—34 to 80 inches; clay

## **Espelie**

Extent: 12 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June) Available water capacity to a depth of 60 inches: 7.1

inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bw1,Bw2—9 to 24 inches; fine sand 2Bg..2Cg—24 to 80 inches; clay

#### Huot

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 7.6

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,Ak—0 to 14 inches; fine sandy loam Bk—14 to 26 inches; loamy fine sand C1—26 to 34 inches; fine sand

2C2,2C3-34 to 80 inches; clay

**Flaming** 

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

Ponding: None

Available water capacity to a depth of 60 inches: 4.9

inches

Content of organic matter in the upper 10 inches: 3

percent Typical profile:

Ap, A—0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

#### **Foxlake**

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)

Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 8.9

inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 19 inches; loam Bg—19 to 38 inches; silty clay Bkg—38 to 49 inches; clay

Cg-49 to 80 inches; clay

## Wheatville

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Very fine sandy loam Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.3 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.4

inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; very fine sandy loam

Bk1,Bk2—9 to 31 inches; very fine sandy loam

2C1..2C4—31 to 80 inches; clay

#### **Thiefriver**

Extent: 1 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

nches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,

February, March, July, August, December *Deepest ponding:* 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.5

inches

Content of organic matter in the upper 10 inches: 6

percent
Typical profile:

Ap, A—0 to 12 inches; fine sandy loam

Bkg1..Bkg3—12 to 23 inches; loamy fine sand

Cg1—23 to 32 inches; fine sand 2Cg2,2Cg3—32 to 80 inches; clay

#### Wyandotte

Extent: 1 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, September, November, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 6.5 inches

Content of organic matter in the upper 10 inches: 4.1 percent

Typical profile:

Ap—0 to 8 inches; clay loam

Bk—8 to 15 inches; sandy clay loam

2C1..2C3—15 to 34 inches; very gravelly loamy coarse sand

3Cg—34 to 60 inches; clay

## Major Uses of the Map Unit

· Cropland, pasture, or hayland

## I34A—Huot fine sandy loam, 0 to 3 percent slopes

## Component Description

#### Huot and similar soils

Extent: 75 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 7.6

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap, Ak—0 to 14 inches; fine sandy loam Bk-14 to 26 inches; loamy fine sand C1-26 to 34 inches; fine sand 2C2,2C3—34 to 80 inches; clay

#### **Thiefriver**

Extent: 12 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January, February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.5

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap, A—0 to 12 inches; fine sandy loam

Bkg1..Bkg3—12 to 23 inches; loamy fine sand

Cg1-23 to 32 inches; fine sand 2Cg2,2Cg3—32 to 80 inches; clay

### Hilaire

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August) Ponding: None

Available water capacity to a depth of 60 inches: 6.9

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap, A—0 to 10 inches; fine sandy loam Bw1..Bw4—10 to 34 inches; fine sand 2BCk-34 to 80 inches; clay

#### **Flaming**

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

#### **Foxlake**

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)
Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 8.9

inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 19 inches; loam Bg—19 to 38 inches; silty clay Bkg—38 to 49 inches; clay Cq—49 to 80 inches; clay

#### Ulen

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.8

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap,Ak—0 to 9 inches; fine sandy loam Bk1,Bk2—9 to 42 inches; loamy fine sand C—42 to 60 inches; fine sand

2 to 00 inches, line sand

## Major Uses of the Map Unit

Cropland, pasture, or hayland

## I36A—Kittson loam, 0 to 3 percent slopes

## **Component Description**

#### Kittson and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

nches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.5

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap—0 to 10 inches; loam

Bw—10 to 17 inches; fine sandy loam 2Bk1,2Bk2—17 to 36 inches; loam 2C—36 to 60 inches; loam

#### **Roliss**

Extent: 12 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Parent material: Till

Flooding: None

Months when ponding does not occur: January, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June, September, October, November) Available water capacity to a depth of 60 inches: 10.7 inches Content of organic matter in the upper 10 inches: 5 percent Typical profile: Ap, A-0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam Hamerly Extent: 5 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60 Drainage class: Somewhat poorly drained Parent material: Till Flooding: None Shallowest depth to wet zone: 1.3 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 10.5 Content of organic matter in the upper 10 inches: 2.5 percent Typical profile: Ap-0 to 8 inches; loam Bk1,Bk2—8 to 25 inches; loam C-25 to 60 inches; loam Kratka Extent: 5 percent of the unit Geomorphic component: Flats on lake plains; swales on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Poorly drained Parent material: Glaciolacustrine deposits over till Flooding: None Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January,

February, March, July, August, September, December Deepest ponding: 0.3 foot (April, May) Available water capacity to a depth of 60 inches: 9.1 Content of organic matter in the upper 10 inches: 6 percent Typical profile: Ap, A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam **Grimstad** Extent: 3 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits over till Flooding: None Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet (August) Ponding: None Available water capacity to a depth of 60 inches: 9.2 Content of organic matter in the upper 10 inches: 2.8 percent Typical profile: Ap—0 to 9 inches; fine sandy loam Bk1,Bk2-9 to 22 inches; loamy fine sand C1—22 to 28 inches; fine sand 2C2,2C3—28 to 60 inches; loam Strandquist Extent: 3 percent of the unit Geomorphic component: Swales on lake plains; flats on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 9.3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; loam

2Bg1—10 to 20 inches; very gravelly sand

3Bg2,3Cg—20 to 60 inches; loam

#### **Foxhome**

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.6

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap—0 to 10 inches; sandy loam

Bw1—10 to 15 inches; sand

2Bw2—15 to 23 inches; very gravelly coarse sand

3C1..3C3-23 to 80 inches: loam

## Major Uses of the Map Unit

Cropland

## I38A—Kratka fine sandy loam, 0 to 2 percent slopes

## Component Description

## Kratka and similar soils

Extent: 70 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January, February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

## **Smiley**

Extent: 7 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December *Deepest ponding:* 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.8 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap-0 to 12 inches; loam

Btg—12 to 19 inches; clay loam

Bkg1..Bkg3—19 to 42 inches; loam

Cg1,Cg2-42 to 80 inches; loam

## **Foldahl**

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

incnes)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.8

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; fine sandy loam Bw1,Bw2—12 to 30 inches; fine sand 2BCk..2C3—30 to 80 inches; loam

## Kratka, very cobbly

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January, February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bq1,Bq2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand

2Cg2..2Cg4—25 to 80 inches; loam

#### Strathcona

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January, February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand

2Cg2,2Cg3—28 to 80 inches; loam

## Kratka, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky fine sandy loam Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February, August) Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 10 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap,A—0 to 11 inches; mucky fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand

2Cg2..2Cg4—25 to 80 inches; loam

## **Strandquist**

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains Slope range: 0 to 2 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 9.3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap-0 to 10 inches; loam

2Bg1—10 to 20 inches; very gravelly sand

3Bg2,3Cg—20 to 60 inches; loam

#### Linveldt

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.9

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt-9 to 16 inches; loam

2Bw1.2Bw2—16 to 29 inches: sand

3Bk—29 to 45 inches; loam 3C1..3C3—45 to 80 inches; loam

## Major Uses of the Map Unit

· Cropland, pasture, or hayland

## I39A—Linveldt fine sandy loam, 0 to 3 percent slopes

## Component Description

## Linveldt and similar soils

Extent: 65 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.9 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt—9 to 16 inches; loam

2Bw1,2Bw2—16 to 29 inches; sand

3Bk—29 to 45 inches; loam 3C1..3C3—45 to 80 inches; loam

#### Kratka

Extent: 14 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam

Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand

2Cg2..2Cg4—25 to 80 inches; loam

### Reiner

Extent: 10 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till

Flooding: None Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None Available water capacity to a depth of 60 inches: 10.2 Content of organic matter in the upper 10 inches: 2.3 percent Typical profile: Ap—0 to 7 inches; fine sandy loam Bt-7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches: loam **Smiley** Extent: 5 percent of the unit Geomorphic component: Swales on lake plains; flats on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,
September, October, November)

Available water capacity to a depth of 60 inches: 10.8 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

#### **Eckvoll**

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3 inches

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand E1,E2—9 to 25 inches; fine sand 2Bt—25 to 32 inches; sandy clay loam 2BCk,2C1,2C2—32 to 80 inches; loam

#### Foldahl

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.8

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; fine sandy loam Bw1,Bw2—12 to 30 inches; fine sand 2BCk..2C3—30 to 80 inches; loam

#### Pelan

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.5

Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap—0 to 6 inches; sandy loam

E-6 to 9 inches; sand

Bt—9 to 14 inches; very gravelly sandy loam

Bw—14 to 20 inches; very gravelly coarse sand

2Bw-20 to 60 inches; loam

## Major Uses of the Map Unit

· Cropland, pasture, or hayland

## I41A—Markey muck, 0 to 1 percent slopes

## **Component Description**

## Markey and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November,

December)

Deepest ponding: 0.5 foot (March, April, May, June)

Available water capacity to a depth of 60 inches: 15.1

inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1..Oa4—0 to 32 inches; muck

Cg—32 to 60 inches; fine sand

## Deerwood

Extent: 12 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August,

September)

Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December) *Available water capacity to a depth of 60 inches:* 7.1

inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:

Oa—0 to 10 inches; muck A—10 to 12 inches; loamy sand Cg1,Cg2—12 to 60 inches; sand

#### **Berner**

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November,

December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9

inches

Content of organic matter in the upper 10 inches: 85

percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck

A—28 to 31 inches; sandy loam

Bg—31 to 44 inches; sand

2CBkg-44 to 80 inches; loam

### Hamar

Extent: 2 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.9 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 5

inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

A1,A2—0 to 12 inches; loamy fine sand AC—12 to 17 inches; loamy fine sand C1,C2—17 to 40 inches; fine sand Ab—40 to 47 inches; loamy fine sand Cq—47 to 60 inches; fine sand

## Seelyeville

Extent: 2 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material

Flooding: None

Shallowest depth to wet zone: At the surface (March, April. May)

Deepest depth to wet zone: 1.6 feet (February, August) Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November,

December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 25.1 inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck
Oa2..Oa5—10 to 80 inches; muck

## **Syrene**

Extent: 2 percent of the unit

Geomorphic component: Flats on beach plains; swales on beach plains

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 3.8 inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; sandy loam Bkg1—9 to 17 inches; sandy loam

2Bkg2—17 to 27 inches; stratified loamy fine sand to gravelly coarse sand

2Cg—27 to 60 inches; stratified loamy fine sand to gravelly coarse sand

## Major Uses of the Map Unit

· Pasture, hayland, or wildlife habitat

## I42A—Markey muck, ponded, 0 to 1 percent slopes

## Component Description

## Markey, ponded, and similar soils

Extent: 85 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (all year)

Ponding depth: 1 foot (all year)

Available water capacity to a depth of 60 inches: 15.1

inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1..Oa4—0 to 32 inches; muck Cg—32 to 60 inches; fine sand

#### Markey

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)
Shallowest ponding: 0.3 foot (January, February, July,
August, September, October, November,
December)

Deepest ponding: 0.5 foot (March, April, May, June)

Available water capacity to a depth of 60 inches: 15.1 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1..Oa4—0 to 32 inches; muck Cg—32 to 60 inches; fine sand

#### Deerwood

Extent: 4 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April. May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 7.1 inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:

Oa—0 to 10 inches; muck A—10 to 12 inches; loamy sand Cg1,Cg2—12 to 60 inches; sand

#### Seelyeville, ponded

Extent: 4 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic materials

Flooding: None

Shallowest depth to wet zone: At the surface (all year)

Ponding depth: 1 foot (all year)

Available water capacity to a depth of 60 inches: 25.1

inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck
Oa2..Oa5—10 to 80 inches; muck

#### Hamar

Extent: 1 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.9 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September, November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

A1,A2—0 to 12 inches; loamy fine sand AC—12 to 17 inches; loamy fine sand C1,C2—17 to 40 inches; fine sand Ab—40 to 47 inches; loamy fine sand Cq—47 to 60 inches; fine sand

## Hangaard

Extent: 1 percent of the unit

Geomorphic component: Flats on beach plains; swales

on beach plains Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 3

inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; sandy loam A—10 to 15 inches; loamy sand

Cg1..Cg5—15 to 80 inches; gravelly coarse sand

## Major Uses of the Map Unit

· Wetland wildlife habitat

## I43A—Mavie fine sandy loam, 0 to 2 percent slopes

## **Component Description**

#### Mavie and similar soils

Extent: 70 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 7.4 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 12 inches; fine sandy loam Bk—12 to 18 inches; sandy loam

2C1,2C2—18 to 39 inches; very gravelly coarse sand

3C3—39 to 80 inches; loam

## **Vallers**

Extent: 10 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December *Deepest ponding:* 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.6

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

A1,A2—0 to 12 inches; loam Bkg1,Bkg2—12 to 21 inches; loam Cg1,Cg2—21 to 60 inches; loam

#### **Strandquist**

Extent: 7 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 9.3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; loam 2Bg1—10 to 20 inches; very gravelly sand 3Bg2,3Cg—20 to 60 inches; loam

## Strathcona

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January, February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

## Strathcona, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April. Mav)

Deepest depth to wet zone: 2.5 feet (February, August) Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 9.9 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap—0 to 10 inches; mucky fine sandy loam Bkg—10 to 17 inches; loamy fine sand Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

### **Foxhome**

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

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Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.6 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap—0 to 10 inches; sandy loam Bw1—10 to 15 inches; loamy sand 2Bw2—15 to 23 inches; very gravelly coarse sand 3C1..3C3—23 to 80 inches: loam

## Karlsruhe

Extent: 2 percent of the unit

Geomorphic component: Rises on beach plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.2 inches

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

A,Ak,ABk—0 to 15 inches; sandy loam Bk,BCk—15 to 30 inches; loamy sand C1..C2—30 to 60 inches; coarse sand

#### Grimstad

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.2 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bk1,Bk2—9 to 22 inches; loamy fine sand C1—22 to 28 inches; fine sand 2C2,2C3—28 to 60 inches; loam

## Major Uses of the Map Unit

· Cropland, pasture, or hayland

## I44A—Newfolden loam, 0 to 3 percent slopes

## Component Description

#### Newfolden and similar soils

Extent: 75 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.4

Content of organic matter in the upper 10 inches: 2.3

percent
Typical profile:

Ap—0 to 7 inches; loam Bt—7 to 16 inches; clay

2Bk1,2Bk2—16 to 36 inches; clay loam

2CBk-36 to 80 inches; loam

## **Smiley**

Extent: 12 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,
September, October, November)

Available water capacity to a depth of 60 inches: 10.8 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

#### Boash

Extent: 8 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August) Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 9.9 inches

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Content of organic matter in the upper 10 inches: 4.7 percent

Typical profile:

Ap—0 to 9 inches; clay loam Bg1,Bg2—9 to 29 inches; clay 2Cg1..2Cg3—29 to 80 inches; loam

#### Linveldt

Extent: 4 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.9

inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt—9 to 16 inches; loam

2Bw1,2Bw2—16 to 29 inches; sand

3Bk—29 to 45 inches; loam

3C1..3C3—45 to 80 inches; loam

## **Hapludolls**

Extent: 1 percent of the unit

Geomorphic component: Hillslopes in drainageways;

escarpments in drainageways Slope range: 2 to 30 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Well drained

Parent material: Glaciolacustrine deposits and/or till Months in which flooding does not occur: January,

February, December

Highest frequency of flooding: Rare (March, April, May,

June, September, October, November)
Shallowest depth to wet zone: 6.7 feet (transitory)

(March, April, May, November)

Deepest depth to wet zone: More than 6.7 feet (February, June, July, August, September,

October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 10.4

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

A—0 to 9 inches; loam C—9 to 60 inches; loam

## Major Uses of the Map Unit

Cropland, pasture, or hayland

## I45A—Northwood muck, 0 to 1 percent slopes

## Component Description

## Northwood and similar soils

Extent: 75 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa-0 to 9 inches; muck

A—9 to 14 inches; loamy fine sand Bg1,Bg2—14 to 24 inches; fine sand 2BCkg,2Cg—24 to 80 inches; loam

#### Hamre

Extent: 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)
Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam

Bg1,Bg2—18 to 71 inches; loam

Cg-71 to 80 inches; loam

#### **Berner**

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May, June)

Deepest depth to wet zone: 2.1 feet (February)
Shallowest ponding: 0.3 foot (January, February, July,
August, September, October, November,
December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A—28 to 31 inches; sandy loam Bg—31 to 44 inches; sand 2CBkg—44 to 80 inches; loam

#### Kratka

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

#### Strandquist

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,
February, March, July, August, September,
November. December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 9.3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; loam 2Bg1—10 to 20 inches; very gravelly sand 3Bg2,3Cg—20 to 60 inches; loam

#### **Roliss**

Extent: 2 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

## Major Uses of the Map Unit

Pasture, hayland, or wildlife habitat

## I46A—Pits, gravel and sand

## Component Description

#### **Pits**

Extent: 85 percent of the unit

Geomorphic component: Beach ridges, lake plains, and beach plains

General definition: Pits are areas that have been mined for gravel or sand. Specific areas are actively being mined or are abandoned pits.

Because of the variability of this component, interpretations for various uses are not available. Onsite investigation is needed.

## Udipsamments

Extent: 10 percent of the unit

Geomorphic component: Beach ridges, lake plains,

and beach plains

Slope range: 1 to 50 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Excessively drained

Parent material: Beach sand and/or glaciolacustrine

deposits Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3

inches

Content of organic matter in the upper 10 inches: 0.2

percent Typical profile:

A—0 to 14 inches; sand C1—14 to 60 inches; sand

C2-60 to 80 inches; coarse sand

### Radium

Extent: 2 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 3.8

inches

Content of organic matter in the upper 10 inches: 2

percent Typical profile:

Ap—0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1—33 to 43 inches; very gravelly coarse sand

C2..C4—43 to 80 inches; sand

## Maddock

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 1 to 6 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Well drained

Parent material: Glaciolacustrine deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7

inches

Content of organic matter in the upper 10 inches: 1.5

percent
Typical profile:

A—0 to 10 inches; loamy fine sand Bw—10 to 14 inches; fine sand

C1..C3—14 to 60 inches; fine sand

## Marquette

Extent: 1 percent of the unit

Geomorphic component: Beach ridges

Position on the landform: Summits and shoulders

Slope range: 1 to 8 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Excessively drained Parent material: Beach deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Pondina: None

Available water capacity to a depth of 60 inches: 3.1

inches

Content of organic matter in the upper 10 inches: 1.5

percent Typical profile:

A—0 to 6 inches; loamy sand

E-6 to 9 inches; gravelly loamy fine sand

Bt1,Bt2—9 to 14 inches; very gravelly fine sandy loam

C1..C3—14 to 60 inches; stratified extremely

gravelly coarse sand to fine sand

## Sandberg

Extent: 1 percent of the unit

Geomorphic component: Beach ridges

Position on the landform: Shoulders, backslopes, and

summits

Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Excessively drained

Parent material: Beach deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 3.1

inches

Content of organic matter in the upper 10 inches: 2 percent

Typical profile:

Ap, A-0 to 12 inches; loamy sand

Bw—12 to 19 inches; gravelly loamy coarse sand Bk—19 to 29 inches; gravelly coarse sand

C—29 to 80 inches; gravelly coarse sand

## Major Uses of the Map Unit

Wildlife habitat

## I47A—Poppleton fine sand, 0 to 2 percent slopes

## Component Description

## Poppleton and similar soils

Extent: 75 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 5

inches

Content of organic matter in the upper 10 inches: 1 percent

Typical profile:

Ap—0 to 6 inches; fine sand E—6 to 9 inches; fine sand

Bw1..Bw4—9 to 40 inches; fine sand C1,C2—40 to 60 inches; fine sand

#### **Flaming**

Extent: 12 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A-0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

## Garborg

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains; flats on

lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)
Pondina: None

Available water capacity to a depth of 60 inches: 5.2

inches

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand

Bw1..Bw3—12 to 41 inches; loamy fine sand

BCk—41 to 59 inches; fine sand C1,C2—59 to 80 inches; fine sand

#### Hamar

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.9 feet (August)

Months when ponding does not occur: January,
February, March, July, August, September,
November. December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

A1,A2—0 to 12 inches; loamy fine sand AC—12 to 17 inches; loamy fine sand C1,C2—17 to 40 inches; fine sand Ab—40 to 47 inches; loamy fine sand Cq—47 to 60 inches; fine sand

#### Radium

Extent: 2 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 3.8

inches

Content of organic matter in the upper 10 inches: 2 percent

Typical profile:

Ap—0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1—33 to 43 inches; very gravelly coarse sand

C2..C4—43 to 80 inches; sand

### Ulen

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April)

Deepest depth to wet zone: More than 6.7 feet
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.4 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand Bk1,Bk2—9 to 42 inches; loamy fine sand C—42 to 60 inches; fine sand

## Maddock

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 1 to 6 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Well drained

Parent material: Glaciolacustrine deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7

inches

Content of organic matter in the upper 10 inches: 1.5

percent
Typical profile:

A—0 to 10 inches; loamy fine sand Bw—10 to 14 inches; fine sand C1..C3—14 to 60 inches; fine sand

#### Major Uses of the Map Unit

Pasture or hayland

## I48A—Radium loamy sand, 0 to 3 percent slopes

### Component Description

## Radium and similar soils

Extent: 75 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.8

inches

Content of organic matter in the upper 10 inches: 2

percent Typical profile:

Ap—0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1-33 to 43 inches; very gravelly coarse sand

C2..C4-43 to 80 inches; sand

## Sandberg

Extent: 7 percent of the unit

Geomorphic component: Beach ridges

Position on the landform: Backslopes, summits, and

shoulders

Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Excessively drained Parent material: Beach deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 3.1

inches

Content of organic matter in the upper 10 inches: 2 percent

Typical profile:

Ap, A-0 to 12 inches; loamy sand

Bw-12 to 19 inches; gravelly loamy coarse sand

Bk—19 to 29 inches; gravelly coarse sand C—29 to 80 inches; gravelly coarse sand

### Oylen

Extent: 5 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap—0 to 10 inches; sandy loam Bt—10 to 18 inches; sandy loam 2Bw—18 to 38 inches; sand

2C-38 to 80 inches; gravelly coarse sand

## **Flaming**

Extent: 4 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

inches

Content of organic matter in the upper 10 inches: 3

percent Typical profile:

Ap, A—0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

#### Garborg

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains; flats on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.2

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand

Bw1..Bw3—12 to 41 inches; loamy fine sand

BCk—41 to 59 inches; fine sand C1,C2—59 to 80 inches; fine sand

## Hangaard

Extent: 3 percent of the unit

Geomorphic component: Swales on beach plains; flats

on beach plains Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 3

inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; sandy loam A—10 to 15 inches; loamy sand

Cg1..Cg5—15 to 80 inches; gravelly coarse sand

#### Hamar

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Floodina: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.9 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 5

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

A1,A2—0 to 12 inches; loamy fine sand AC—12 to 17 inches; loamy fine sand C1,C2—17 to 40 inches; fine sand Ab—40 to 47 inches; loamy fine sand Cq—47 to 60 inches; fine sand

## **Poppleton**

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 5

inches

Content of organic matter in the upper 10 inches: 1

percent Typical profile:

Ap—0 to 6 inches; fine sand E—6 to 9 inches; fine sand

Bw1..Bw4—9 to 40 inches; fine sand C1,C2—40 to 60 inches; fine sand

## Major Uses of the Map Unit

Cropland, pasture, or hayland

## I50A—Reiner fine sandy loam, 0 to 3 percent slopes

### Component Description

## Reiner and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.2

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap—0 to 7 inches; fine sandy loam

Bt—7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches; loam

## **Smiley**

Extent: 12 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,
September, October, November)

Available water capacity to a depth of 60 inches: 10.8

Inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

#### Reiner, very cobbly

Extent: 7 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.2 inches

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap—0 to 7 inches; fine sandy loam Bt—7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches; loam

#### Linveldt

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.9

inches

Content of organic matter in the upper 10 inches: 2.8

percent Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt—9 to 16 inches; loam

2Bw1,2Bw2—16 to 29 inches; sand

3Bk—29 to 45 inches; loam 3C1..3C3—45 to 80 inches; loam

#### Eckvoll

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3

inches

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand E1,E2—9 to 25 inches; fine sand 2Bt—25 to 32 inches; sandy clay loam 2BCk,2C1,2C2—32 to 80 inches; loam

## **Kratka**

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

## Major Uses of the Map Unit

· Cropland, pasture, or hayland

## I51A—Reiner loamy fine sand, 0 to 3 percent slopes

### Component Description

#### Reiner and similar soils

Extent: 65 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 9.7

inches

Content of organic matter in the upper 10 inches: 1.6 percent

Typical profile:

Ap—0 to 7 inches; loamy fine sand Bt—7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches; loam

## **Smiley**

Extent: 9 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.8

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam

Btg—12 to 19 inches; clay loam

Bkg1..Bkg3—19 to 42 inches; loam

Cg1,Cg2—42 to 80 inches; loam

## Reiner fine sandy loam

Extent: 8 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.2

inches

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap—0 to 7 inches; fine sandy loam Bt—7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches; loam

## Linveldt

Extent: 7 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.9

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt—9 to 16 inches; loam

2Bw1,2Bw2—16 to 29 inches; sand

3Bk—29 to 45 inches; loam 3C1..3C3—45 to 80 inches; loam

#### Kratka

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

December

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

#### **Eckvoll**

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

nones)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3

inches

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand E1,E2—9 to 25 inches; fine sand 2Bt—25 to 32 inches; sandy clay loam 2BCk,2C1,2C2—32 to 80 inches; loam

## Reiner, very cobbly

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.2

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap—0 to 7 inches; fine sandy loam Bt—7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches; loam

## Major Uses of the Map Unit

· Cropland, pasture, or hayland

## I52A—Reis-Clearwater complex, 0 to 2 percent slopes

## Component Description

## Reis and similar soils

Extent: 55 percent of the unit

Geomorphic component: Flats on lake plains; rises on Slope range: 0 to 1 percent lake plains Texture of the surface layer: Clay Slope range: 0 to 2 percent Depth to restrictive feature: Very deep (more than 60 Texture of the surface layer: Clay inches) Depth to restrictive feature: Very deep (more than 60 Drainage class: Poorly drained inches) Parent material: Till Drainage class: Poorly drained Flooding: None Parent material: Till Shallowest depth to wet zone: At the surface (April) Flooding: None Deepest depth to wet zone: 3 feet (August) Shallowest depth to wet zone: 0.5 foot (April) Months when ponding does not occur: January, Deepest depth to wet zone: 3.6 feet (August) February, March, December Ponding: None Deepest ponding: 0.3 foot (April, May, June, Available water capacity to a depth of 60 inches: 8.3 November) Available water capacity to a depth of 60 inches: 8.2 Content of organic matter in the upper 10 inches: 4.7 Content of organic matter in the upper 10 inches: 4.2 percent Typical profile: percent Ap-0 to 9 inches; clay Typical profile: Ap—0 to 8 inches; clay A/Bk—9 to 17 inches; clay Bkss1, Bkss2—17 to 33 inches; clay Bss1,Bss2—8 to 35 inches; clay Bkg—33 to 42 inches; clay Cg1,Cg2—35 to 80 inches; clay Cg1,Cg2—42 to 60 inches; clay Clearwater, depressional C-60 to 80 inches; clay Extent: 3 percent of the unit Clearwater and similar soils Geomorphic component: Depressions on lake plains Slope range: 0 to 1 percent Extent: 30 percent of the unit Geomorphic component: Swales on lake plains; flats Texture of the surface layer: Mucky clay loam Depth to restrictive feature: Very deep (more than 60 on lake plains Slope range: 0 to 2 percent inches) Texture of the surface layer: Clay Drainage class: Very poorly drained Depth to restrictive feature: Very deep (more than 60 Parent material: Till inches) Floodina: None Drainage class: Poorly drained Shallowest depth to wet zone: At the surface (March, Parent material: Till April, May) Flooding: None Deepest depth to wet zone: 1.6 feet (February, August) Shallowest depth to wet zone: At the surface (April) Ponding depth: 0.5 foot (all year) Deepest depth to wet zone: 3 feet (August) Available water capacity to a depth of 60 inches: 9 Months when ponding does not occur: January, February, March, December Content of organic matter in the upper 10 inches: 8.4 Deepest ponding: 0.3 foot (April, May, June, percent November) Typical profile: Available water capacity to a depth of 60 inches: 8.2 Ap—0 to 8 inches; mucky clay loam Bss1,Bss2—8 to 35 inches; clay Content of organic matter in the upper 10 inches: 4.2 Cg1,Cg2—35 to 80 inches; clay percent **Espelie** Typical profile: Ap-0 to 8 inches; clay Extent: 3 percent of the unit Bss1,Bss2—8 to 35 inches; clay

## Clearwater, very cobbly

Cg1,Cg2—35 to 80 inches; clay

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Drainage class: Poorly drained

on lake plains Slope range: 0 to 2 percent

inches)

Geomorphic component: Flats on lake plains; swales

Depth to restrictive feature: Very deep (more than 60

Texture of the surface layer: Fine sandy loam

Parent material: Glaciolacustrine deposits over till Flooding: None
Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.1 inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bw1,Bw2—9 to 24 inches; fine sand 2Bg..2Cg—24 to 80 inches; clay

#### Hattie

Extent: 3 percent of the unit

Geomorphic component: Escarpments on lake plains

Position on the landform: Summit Slope range: 1 to 3 percent Texture of the surface layer: Clay

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.1 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(February) Ponding: None

Available water capacity to a depth of 60 inches: 7.7

Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 8 inches; clay Bk—8 to 22 inches; silty clay C—22 to 80 inches; clay

## Wyandotte

Extent: 1 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January, February, March, July, August, September, November, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 6.5 inches

Content of organic matter in the upper 10 inches: 4.1 percent

Typical profile:

Ap—0 to 8 inches; clay loam

Bk—8 to 15 inches; sandy clay loam

2C1..2C3—15 to 34 inches; very gravelly loamy coarse sand

3Cg-34 to 60 inches; clay

## Major Uses of the Map Unit

Cropland

## I53A—Roliss loam, 0 to 2 percent slopes

## **Component Description**

## Roliss and similar soils

Extent: 75 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.7

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

#### Kratka

Extent: 8 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Poorly drained Parent material: Glaciolacustrine deposits over till Flooding: None Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, February, March, July, August, September, December Deepest ponding: 0.3 foot (April, May) Available water capacity to a depth of 60 inches: 9.1 Content of organic matter in the upper 10 inches: 6 percent Typical profile: Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam Roliss, very cobbly Extent: 7 percent of the unit Geomorphic component: Flats on lake plains; swales on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Poorly drained Parent material: Till Flooding: None Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June, September, October, November) Available water capacity to a depth of 60 inches: 10.7 Content of organic matter in the upper 10 inches: 5 percent Typical profile:

## **Kittson**

Extent: 5 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent

Cg1..Cg4—20 to 80 inches; loam

Texture of the surface layer: Loam

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.5 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap—0 to 10 inches; loam

Bw—10 to 17 inches; fine sandy loam 2Bk1,2Bk2—17 to 36 inches; loam 2C—36 to 60 inches; loam

## Roliss, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 10.9 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

## **Smiley**

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.8 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

## Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I54A—Roliss loam, depressional, 0 to 1 percent slopes

## Component Description

### Roliss, depressional, and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 10.9 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

#### **Roliss**

Extent: 12 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January, February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

#### Hamre

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)
Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg1,Bg2—18 to 71 inches; loam Cq—71 to 80 inches; loam

### Kratka

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

## Major Uses of the Map Unit

· Pasture, hayland, or wildlife habitat

## I55A—Rosewood fine sandy loam, 0 to 2 percent slopes

## **Component Description**

#### Rosewood and similar soils

Extent: 75 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.9 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 5.6

inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam

Bkg1,Bkg2—8 to 18 inches; fine sandy loam Cg1..Cg3—18 to 80 inches; fine sand

#### Ulen

Extent: 10 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April)
Deepest depth to wet zone: More than 6.7 feet
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.8 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bk1,Bk2—9 to 42 inches; loamy fine sand C—42 to 60 inches; fine sand

### Hamar

Extent: 6 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.9 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 5
inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

A1,A2—0 to 12 inches; loamy fine sand AC—12 to 17 inches; loamy fine sand C1,C2—17 to 40 inches; fine sand Ab—40 to 47 inches; loamy fine sand Cq—47 to 60 inches; fine sand

## Rosewood, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April)
Deepest depth to wet zone: 3 feet (February, August)
Shallowest ponding: 0.3 foot (July, August, September,
October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 6.2 inches

Content of organic matter in the upper 10 inches: 8.2 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam Bkg1,Bkg2—8 to 18 inches; fine sandy loam

Cg1..Cg3—18 to 80 inches; fine sand

## Syrene

Extent: 3 percent of the unit

Geomorphic component: Swales on beach plains; flats on beach plains

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August) Months when ponding does not occur: January,

February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 3.8

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; sandy loam Bkg1—9 to 17 inches; sandy loam

2Bkg2—17 to 27 inches; stratified loamy fine sand to gravelly coarse sand

2Cg—27 to 60 inches; stratified loamy fine sand to gravelly coarse sand

#### Karlsruhe

Extent: 1 percent of the unit

Geomorphic component: Rises on beach plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.2

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

A,Ak,ABk—0 to 15 inches; sandy loam Bk,BCk—15 to 30 inches; loamy sand C1..C2—30 to 60 inches; coarse sand

#### Strathcona

Extent: 1 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam

Bkg—10 to 17 inches; fine sandy loam, loamy fine sand

Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

### Thiefriver

Extent: 1 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.5

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 12 inches; fine sandy loam

Bkg1..Bkg3—12 to 23 inches; loamy fine sand

Cg1—23 to 32 inches; fine sand 2Cg2,2Cg3—32 to 80 inches; clay

## Major Uses of the Map Unit

Cropland, pasture, or hayland

## I57B—Sandberg-Radium complex, 1 to 6 percent slopes

#### Component Description

#### Sandberg and similar soils

Extent: 50 percent of the unit

Geomorphic component: Beach ridges

Position on the landform: Backslopes, summits, and

shoulders

Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Excessively drained Parent material: Beach deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 3.1

Content of organic matter in the upper 10 inches: 2

percent Typical profile:

Ap, A-0 to 12 inches; loamy sand

Bw—12 to 19 inches; gravelly loamy coarse sand

Bk-19 to 29 inches; gravelly coarse sand C-29 to 80 inches; gravelly coarse sand

#### Radium and similar soils

Extent: 25 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August) Ponding: None

Available water capacity to a depth of 60 inches: 3.8

Content of organic matter in the upper 10 inches: 2

percent Typical profile:

> Ap-0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1—33 to 43 inches; very gravelly coarse sand

C2..C4—43 to 80 inches; sand

#### Sioux

Extent: 8 percent of the unit

Geomorphic component: Beach ridges

Position on the landform: Shoulders and summits

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Excessively drained Parent material: Beach deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 3.6

Content of organic matter in the upper 10 inches: 1.4

percent Typical profile:

A-0 to 5 inches; sandy loam

AC—5 to 8 inches; gravelly sandy loam C—8 to 60 inches; very gravelly sand

## Oylen

Extent: 7 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August) Ponding: None

Available water capacity to a depth of 60 inches: 4.9

Content of organic matter in the upper 10 inches: 3

percent Typical profile:

> Ap—0 to 10 inches; sandy loam Bt—10 to 18 inches; sandy loam

2Bw-18 to 38 inches; sand

2C-38 to 80 inches; gravelly coarse sand

## **Flaming**

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August) Ponding: None

Available water capacity to a depth of 60 inches: 4.9

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap, A—0 to 12 inches; loamy fine sand

BA-12 to 17 inches: fine sand Bw—17 to 27 inches: fine sand C1,C2—27 to 60 inches; fine sand

## Garborg

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; rises on

lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August) Ponding: None

Available water capacity to a depth of 60 inches: 5.2

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

Ap,A-0 to 12 inches; loamy fine sand

Bw1..Bw3—12 to 41 inches; loamy fine sand

BCk—41 to 59 inches; fine sand C1.C2—59 to 80 inches: fine sand

## Major Uses of the Map Unit

· Pasture or hayland

## I58A—Seelyeville muck, 0 to 1 percent slopes

## Component Description

## Seelyeville and similar soils

Extent: 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic material

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 1.6 feet (February, August) Shallowest ponding: 0.3 foot (January, February, July,

August, September, October, November,

December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 25.1

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck

Oa2..Oa5—10 to 80 inches; muck

## Cathro

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Very poorly drained Parent material: Organic material over till Flooding: None Shallowest depth to wet zone: At the surface (March, April, May, June) Deepest depth to wet zone: 2.1 feet (February) Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December) Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 Content of organic matter in the upper 10 inches: 85 percent Typical profile: Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches: muck Cg—23 to 60 inches; loam Dora Extent: 0 to 10 percent of the unit Geomorphic component: Depressions on lake plains Slope range: 0 to 1 percent Texture of the surface layer: Mucky peat Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 19.1 inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oe—0 to 12 inches; mucky peat Oa1,Oa2—12 to 32 inches; muck A—32 to 36 inches; mucky silty clay loam Cg1..Cg3—36 to 60 inches; silty clay

## Markey

Extent: 0 to 10 percent of the unit Geomorphic component: Depressions on lake plains Slope range: 0 to 1 percent
Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.1 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1..Oa4—0 to 32 inches; muck Cg—32 to 60 inches; fine sand

#### **Berner**

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June)

Deepest depth to wet zone: 2.1 feet (February)

Shallowest ponding: 0.3 foot (January, February, July, August, September, October, November, December)

Deepest ponding: 0.5 foot (March, April, May, June) Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A—28 to 31 inches; sandy loam Bg—31 to 44 inches; sand 2CBkg—44 to 80 inches; loam

## Major Uses of the Map Unit

• Pasture, hayland, or wildlife habitat

## I59A—Smiley loam, 0 to 2 percent slopes

## Component Description

## Smiley and similar soils

Extent: 65 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.8

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

#### Smiley, very cobbly

Extent: 10 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,

epest ponding: 0.3 foot (April, May, June September, October, November)

Available water capacity to a depth of 60 inches: 10.8 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam

Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

#### Kratka

Extent: 9 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand

Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

#### Roliss

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains Slope range: 0 to 2 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam

Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

#### Reiner

Extent: 4 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.2

inches

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap—0 to 7 inches; fine sandy loam Bt—7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches; loam

### Linveldt

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.9

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt—9 to 16 inches; loam

2Bw1,2Bw2—16 to 29 inches; sand

3Bk-29 to 45 inches; loam

3C1..3C3—45 to 80 inches; loam

## Smiley, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 11.1 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap—0 to 12 inches; mucky loam Btg—12 to 19 inches; clay loam Bkg1,Bkg2—19 to 42 inches; loam

Cg-42 to 80 inches; loam

## **Strandquist**

Extent: 1 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January, February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June,

October)

Available water capacity to a depth of 60 inches: 9.3

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap-0 to 10 inches; loam

2Bg1—10 to 20 inches; very gravelly sand

3Bg2,3Cg-20 to 60 inches; loam

## Major Uses of the Map Unit

· Cropland, pasture, or hayland

# 160A—Smiley mucky loam, depressional,0 to 1 percent slopes

# **Component Description**

### Smiley, depressional, and similar soils

Extent: 80 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 11.1 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap—0 to 12 inches; mucky loam Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

#### **Smiley**

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.8

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

#### Hamre

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August,

September)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 13.3 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg1,Bg2—18 to 71 inches; loam Cq—71 to 80 inches; loam

#### Kratka

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

# Major Uses of the Map Unit

· Pasture, hayland, or wildlife habitat

# I61A—Strandquist loam, 0 to 2 percent slopes

# Component Description

#### Strandquist and similar soils

Extent: 70 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 9.3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; loam

2Bg1—10 to 20 inches; very gravelly sand

3Bg2,3Cg-20 to 60 inches; loam

#### Mavie

Extent: 8 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,

February, March, July, August, September, November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 7.4 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 12 inches; fine sandy loam Bk—12 to 18 inches; sandy loam

2C1,2C2—18 to 39 inches; very gravelly coarse sand

3C3—39 to 80 inches; loam

#### **Roliss**

Extent: 7 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

#### Kratka

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,

February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

#### **Foxhome**

Extent: 4 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.6 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap—0 to 10 inches; sandy loam Bw1—10 to 15 inches; loamy sand

2Bw2—15 to 23 inches; very gravelly coarse sand

3C1..3C3—23 to 80 inches; loam

#### Hangaard

Extent: 3 percent of the unit

Geomorphic component: Flats on beach plains; swales

on beach plains Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May) Available water capacity to a depth of 60 inches: 3

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; sandy loam A—10 to 15 inches; loamy sand

Cg1..Cg5—15 to 80 inches; gravelly coarse sand

#### Northwood

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine

deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March,

April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September)
Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)
Available water capacity to a depth of 60 inches: 11.3

inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa—0 to 9 inches: muck

A—9 to 14 inches; loamy fine sand Bg1,Bg2—14 to 24 inches; fine sand 2BCkg,2Cg—24 to 80 inches; loam

### Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I62A—Syrene sandy loam, 0 to 2 percent slopes

# Component Description

# Syrene and similar soils

Extent: 70 percent of the unit

Geomorphic component: Swales on beach plains; flats

on beach plains

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Beach deposits Flooding: None
Shallowest doubt to wet zone: 0

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September, October, November, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 3.8 inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; sandy loam Bkg1—9 to 17 inches; sandy loam

2Bkg2—17 to 27 inches; stratified loamy fine sand to gravelly coarse sand

2Cg—27 to 60 inches; stratified loamy fine sand to gravelly coarse sand

#### Rosewood

Extent: 11 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.9 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam

Bkg1,Bkg2—8 to 18 inches; fine sandy loam

Cg1..Cg3—18 to 80 inches; fine sand

#### Hangaard

Extent: 5 percent of the unit

Geomorphic component: Swales on beach plains; flats

on beach plains Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December *Deepest ponding:* 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; sandy loam A—10 to 15 inches; loamy sand

Cg1..Cg5—15 to 80 inches; gravelly coarse sand

#### Karlsruhe

Extent: 4 percent of the unit

Geomorphic component: Rises on beach plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.2

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

A,Ak,ABk—0 to 15 inches; sandy loam Bk,BCk—15 to 30 inches; loamy sand C1..C2—30 to 60 inches; coarse sand

#### **Deerwood**

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)
Shallowest ponding: 0.3 foot (July, August, September)
Deepest ponding: 0.5 foot (January, February, March,
April, May, June, October, November, December)
Available water capacity to a depth of 60 inches: 7.1
inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:

Oa—0 to 10 inches; muck A—10 to 12 inches; loamy sand Cg1,Cg2—12 to 60 inches; sand

#### Hamar

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.9 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

A1,A2—0 to 12 inches; loamy fine sand AC—12 to 17 inches; loamy fine sand C1,C2—17 to 40 inches; fine sand Ab—40 to 47 inches; loamy fine sand Cg—47 to 60 inches; fine sand

#### **Strandquist**

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

inches

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January, February, March, July, August, September, November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 9.3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; loam

2Bg1—10 to 20 inches; very gravelly sand

3Bg2,3Cg—20 to 60 inches; loam

#### Radium

Extent: 1 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.8

inches

Content of organic matter in the upper 10 inches: 2 percent

Typical profile:

Ap—0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1—33 to 43 inches; very gravelly coarse sand

C2..C4—43 to 80 inches; sand

#### Wyandotte

Extent: 1 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 6.5

Content of organic matter in the upper 10 inches: 4.1 percent

Typical profile:

Ap-0 to 8 inches; clay loam

Bk-8 to 15 inches; sandy clay loam

2C1..2C3—15 to 34 inches; very gravelly loamy coarse sand

3Cg—34 to 60 inches; clay

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I63A—Thiefriver fine sandy loam, 0 to 2 percent slopes

# Component Description

#### Thiefriver and similar soils

Extent: 70 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.5

Content of organic matter in the upper 10 inches: 6

percent Typical profile:

Ap, A—0 to 12 inches; fine sandy loam

Bkg1..Bkg3—12 to 23 inches; loamy fine sand

Cg1—23 to 32 inches; fine sand 2Cg2,2Cg3—32 to 80 inches; clay

#### **Espelie**

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.1 inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bw1,Bw2-9 to 24 inches; fine sand

2Bg..2Cg—24 to 80 inches; clay

#### Foxlake

Extent: 7 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till

Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August) Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June,

November)

Available water capacity to a depth of 60 inches: 8.9

inches

Content of organic matter in the upper 10 inches: 5

percent

Typical profile:

Ap, A-0 to 19 inches; loam

Bg—19 to 38 inches; silty clay

Bkg—38 to 49 inches; clay

Cg-49 to 80 inches; clay

#### Huot

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 7.6

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap, Ak—0 to 14 inches; fine sandy loam Bk—14 to 26 inches; loamy fine sand C1-26 to 34 inches; fine sand 2C2,2C3—34 to 80 inches; clay

### Clearwater, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky clay loam

Depth to restrictive feature: Very deep (more than 60

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March,

April. May)

Deepest depth to wet zone: 1.6 feet (February, August)

Ponding depth: 0.5 foot (all year)

Available water capacity to a depth of 60 inches: 9

Content of organic matter in the upper 10 inches: 8.4 percent

Typical profile:

Ap—0 to 8 inches; mucky clay loam Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay

#### Rosewood

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.9 feet (August)

Months when ponding does not occur: January, February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 5.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam

Bkg1,Bkg2—8 to 18 inches; fine sandy loam

Cg1..Cg3—18 to 80 inches; fine sand

#### Ulen

Extent: 1 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August) Ponding: None

Available water capacity to a depth of 60 inches: 5.8

Content of organic matter in the upper 10 inches: 2.8

percent Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bk1,Bk2-9 to 42 inches; loamy fine sand

C-42 to 60 inches: fine sand

#### Wyandotte

Extent: 1 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January, February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 6.5

Content of organic matter in the upper 10 inches: 4.1 percent

Typical profile:

Ap-0 to 8 inches; clay loam

Bk-8 to 15 inches; sandy clay loam

2C1..2C3—15 to 34 inches; very gravelly loamy coarse sand

3Cg-34 to 60 inches; clay

# Major Uses of the Map Unit

• Cropland, pasture, or hayland

# 164A—Ulen fine sandy loam, 0 to 3 percent slopes

# **Component Description**

#### Ulen and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.8 inches

Inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bk1,Bk2—9 to 42 inches; loamy fine sand

C-42 to 60 inches: fine sand

#### Rosewood

Extent: 10 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.9 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam Bkg1,Bkg2—8 to 18 inches; fine sandy loam Cg1..Cg3—18 to 80 inches; fine sand

#### **Flaming**

Extent: 8 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

inches

Content of organic matter in the upper 10 inches: 3

percent Typical profile:

Ap, A-0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

### Karlsruhe

Extent: 5 percent of the unit

Geomorphic component: Rises on beach plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.2

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

A,Ak,ABk—0 to 15 inches; sandy loam

Bk,BCk—15 to 30 inches; loamy sand C1..C2—30 to 60 inches; coarse sand

#### Radium

Extent: 3 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

Ponding: None

Available water capacity to a depth of 60 inches: 3.8

inches

Content of organic matter in the upper 10 inches: 2 percent

Typical profile:

Ap—0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1—33 to 43 inches; very gravelly coarse sand

C2..C4—43 to 80 inches; sand

#### Strathcona

Extent: 2 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

#### **Thiefriver**

Extent: 2 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January,

February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.5 inches

inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 12 inches; fine sandy loam

Bkg1..Bkg3—12 to 23 inches; loamy fine sand

Cg1—23 to 32 inches; fine sand 2Cg2,2Cg3—32 to 80 inches; clay

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I65A—Ulen loamy fine sand, 0 to 3 percent slopes

# Component Description

#### Ulen and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April)

Deepest depth to wet zone: More than 6.7 feet
(August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.4

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand Bk1,Bk2—9 to 42 inches; loamy fine sand C—42 to 60 inches; fine sand

#### Rosewood

Extent: 10 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.9 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November. December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 5.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam Bkg1,Bkg2—8 to 18 inches; fine sandy loam Cg1..Cg3—18 to 80 inches; fine sand

#### **Flaming**

Extent: 6 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)

Ponding: None

Available water capacity to a depth of 60 inches: 4.9 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

# **Poppleton**

Extent: 4 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 5

inches

Content of organic matter in the upper 10 inches: 1

percent Typical profile:

Ap—0 to 6 inches; fine sand E—6 to 9 inches; fine sand

Bw1..Bw4—9 to 40 inches; fine sand C1,C2—40 to 60 inches; fine sand

#### Karlsruhe

Extent: 3 percent of the unit

Geomorphic component: Rises on beach plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches'

Drainage class: Somewhat poorly drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.2

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

A,Ak,ABk—0 to 15 inches; sandy loam Bk,BCk—15 to 30 inches; loamy sand C1..C2—30 to 60 inches; coarse sand

#### Radium

Extent: 3 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches

Content of organic matter in the upper 10 inches: 2 percent

Typical profile:

Ap—0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1—33 to 43 inches; very gravelly coarse sand

C2..C4—43 to 80 inches; sand

#### Strathcona

Extent: 2 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

#### **Thiefriver**

Extent: 2 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.5 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 12 inches; fine sandy loam

Bkg1..Bkg3—12 to 23 inches; loamy fine sand

Cg1—23 to 32 inches; fine sand 2Cg2,2Cg3—32 to 80 inches; clay

# Major Uses of the Map Unit

• Cropland, pasture, or hayland

# I66A—Vallers loam, 0 to 2 percent slopes

# Component Description

#### Vallers and similar soils

Extent: 75 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

A1,A2—0 to 12 inches; loam Bkg1,Bkg2—12 to 21 inches; loam Cg1,Cg2—21 to 60 inches; loam

#### Vallers, very cobbly

Extent: 7 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Poorly drained Parent material: Till Flooding: None Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June, September, October, November) Available water capacity to a depth of 60 inches: 10.6 inches Content of organic matter in the upper 10 inches: 5 percent Typical profile: A1,A2—0 to 12 inches; loam Bkg1,Bkg2—12 to 21 inches; loam Cg1,Cg2—21 to 60 inches; loam Hamerly Extent: 6 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 2 percent Texture of the surface layer: Loam Depth to restrictive feature: Very deep (more than 60 Drainage class: Somewhat poorly drained Parent material: Till Flooding: None Shallowest depth to wet zone: 1.3 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August) Ponding: None Available water capacity to a depth of 60 inches: 10.5 Content of organic matter in the upper 10 inches: 2.5 percent Typical profile: Ap-0 to 8 inches; loam

#### **Grimstad**

Extent: 3 percent of the unit Geomorphic component: Rises on lake plains Slope range: 0 to 3 percent

C-25 to 60 inches; loam

Bk1,Bk2—8 to 25 inches; loam

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August) Ponding: None

Available water capacity to a depth of 60 inches: 9.2

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bk1,Bk2—9 to 22 inches; loamy fine sand

C1—22 to 28 inches; fine sand 2C2,2C3—28 to 60 inches; loam

#### Mavie

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January,

February, March, July, August, September,

November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 7.4

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 12 inches; fine sandy loam

Bk-12 to 18 inches; sandy loam

2C1,2C2—18 to 39 inches; very gravelly coarse sand

3C3—39 to 80 inches; loam

# Roliss, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

Drainage class: Very poorly drained

Parent material: Till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 10.9 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

#### Strathcona

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam Bkg—10 to 17 inches; fine sandy loam Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

### Major Uses of the Map Unit

Cropland

# I67A—Wheatville loam, 0 to 3 percent slopes

Component Description

### Wheatville and similar soils

Extent: 70 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.3 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.6 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap-0 to 9 inches; loam

Bk1,Bk2—9 to 31 inches; very fine sandy loam

2C1..2C4—31 to 80 inches; clay

### **Augsburg**

Extent: 13 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 11 inches; loam

Bkg—11 to 18 inches; very fine sandy loam Bg1—18 to 33 inches; loamy very fine sand

2Bg2—33 to 60 inches; clay

#### **Glyndon**

Extent: 8 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Very fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1 foot (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August) Ponding: None

Available water capacity to a depth of 60 inches: 10.4 inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap, Ak—0 to 11 inches; very fine sandy loam Bk1,Bk2—11 to 28 inches; very fine sandy loam C,Cg—28 to 60 inches; loamy very fine sand

#### **Foxlake**

Extent: 5 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April) Deepest depth to wet zone: 3 feet (August)

Months when ponding does not occur: January,

February, March, December

Deepest ponding: 0.3 foot (April, May, June, November)

Available water capacity to a depth of 60 inches: 8.9

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 19 inches; loam Bg—19 to 38 inches; silty clay Bkg—38 to 49 inches; clay Cg—49 to 80 inches; clay

#### Hilaire

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August) Ponding: None

Available water capacity to a depth of 60 inches: 6.5

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A—0 to 10 inches; loamy fine sand Bw1..Bw4—10 to 34 inches; fine sand 2BCk-34 to 80 inches; clay

#### Ulen

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August) Ponding: None

Available water capacity to a depth of 60 inches: 5.4

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap-0 to 9 inches; loamy fine sand Bk1,Bk2—9 to 42 inches; loamy fine sand C-42 to 60 inches; fine sand

### Major Uses of the Map Unit

Cropland

# 169A—Wyandotte clay loam, 0 to 2 percent slopes

### Component Description

# Wyandotte and similar soils

Extent: 65 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till Flooding: None
Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December
Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 6.5 inches

Content of organic matter in the upper 10 inches: 4.1 percent

Typical profile:

Ap—0 to 8 inches; clay loam Bk—8 to 15 inches; sandy clay loam

2C1..2C3—15 to 34 inches; very gravelly loamy coarse sand

3Cg-34 to 60 inches; clay

#### **Foxlake**

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (August)

Months when ponding does not occur: January,
February, March, December

Deepest ponding: 0.3 foot (April, May, June, November)

Available water capacity to a depth of 60 inches: 8.9 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 19 inches; loam Bg—19 to 38 inches; silty clay Bkg—38 to 49 inches; clay Cg—49 to 80 inches; clay

#### **Espelie**

Extent: 8 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December
Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.1 inches

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bw1,Bw2—9 to 24 inches; fine sand 2Bg..2Cg—24 to 80 inches; clay

# Clearwater, depressional

Extent: 5 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky clay loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 1.6 feet (February, August)

Ponding depth: 0.5 foot (all year)

Available water capacity to a depth of 60 inches: 9

Content of organic matter in the upper 10 inches: 8.4 percent

Typical profile:

Ap—0 to 8 inches; mucky clay loam Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay

#### **Thiefriver**

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August)

Months when ponding does not occur: January, February, March, July, August, December Deepest ponding: 0.3 foot (April, May, June)

Available water capacity to a depth of 60 inches: 7.5

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 12 inches; fine sandy loam Bkg1..Bkg3—12 to 23 inches; loamy fine sand Cg1—23 to 32 inches; fine sand

2Cg2,2Cg3—32 to 80 inches; clay

#### Karlsruhe

Extent: 4 percent of the unit

Geomorphic component: Rises on beach plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April) Deepest depth to wet zone: 6.7 feet (transitory) (August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.2

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

A,Ak,ABk—0 to 15 inches; sandy loam Bk,BCk—15 to 30 inches; loamy sand C1..C2-30 to 60 inches; coarse sand

# Syrene

Extent: 3 percent of the unit

Geomorphic component: Swales on beach plains; flats on beach plains

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May) Available water capacity to a depth of 60 inches: 3.8

Content of organic matter in the upper 10 inches: 5.6 percent

Typical profile:

Ap—0 to 9 inches; sandy loam

Bkg1—9 to 17 inches; sandy loam

2Bkg2—17 to 27 inches; stratified loamy fine sand to gravelly coarse sand

2Cg-27 to 60 inches; stratified loamy fine sand to gravelly coarse sand

# Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I70A—Strathcona fine sandy loam, 0 to 2 percent slopes

# Component Description

#### Strathcona and similar soils

Extent: 70 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Floodina: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.1 feet (August)

Months when ponding does not occur: January,

February, March, July, August, September,

December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam

Bkg—10 to 17 inches; fine sandy loam

Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

#### Kratka

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, February, March, July, August, September, December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

#### Roliss

Extent: 6 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 3.8 feet (August) Months when ponding does not occur: January, February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June,

September, October, November)

Available water capacity to a depth of 60 inches: 10.7

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A-0 to 14 inches; loam Bg—14 to 20 inches; loam Cg1..Cg4—20 to 80 inches; loam

#### **Grimstad**

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet (August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.2 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam Bk1,Bk2—9 to 22 inches; loamy fine sand C1—22 to 28 inches; fine sand

2C2,2C3—28 to 60 inches; loam

#### Mavie

Extent: 3 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April) Deepest depth to wet zone: 4.1 feet (August) Months when ponding does not occur: January, February, March, July, August, September, November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 7.4 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap-0 to 12 inches; fine sandy loam Bk—12 to 18 inches; sandy loam 2C1,2C2—18 to 39 inches; very gravelly coarse

3C3—39 to 80 inches; loam

#### Rosewood

Extent: 3 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.9 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November. December

Deepest ponding: 0.3 foot (April, May, June, October)

Available water capacity to a depth of 60 inches: 5.6 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 8 inches; fine sandy loam Bkg1,Bkg2—8 to 18 inches; fine sandy loam Cg1..Cg3—18 to 80 inches; fine sand

### Strathcona, depressional

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February,

Shallowest ponding: 0.3 foot (July, August, September, October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 9.9 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

Ap—0 to 10 inches; mucky fine sandy loam Bkg—10 to 17 inches; loamy fine sand Cg1—17 to 28 inches; fine sand 2Cg2,2Cg3—28 to 80 inches; loam

#### Major Uses of the Map Unit

Cropland, pasture, or hayland

# I71A—Berner and Cathro soils, ponded, MLRA 56, 0 to 1 percent slopes

# **Component Description**

### Berner, ponded, and similar soils

Extent: 0 to 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (all year)

Ponding depth: 1 foot (all year)

Available water capacity to a depth of 60 inches: 15.9

inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 28 inches; muck A—28 to 31 inches; sandy loam Bg—31 to 44 inches; sand 2Cq—44 to 60 inches; loam

# Cathro, ponded, and similar soils

Extent: 0 to 90 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Organic materials over glaciolacustrine deposits or till

Flooding: None

Shallowest depth to wet zone: At the surface (all year)

Ponding depth: 1 foot (all year)

Available water capacity to a depth of 60 inches: 15.9 inches

Content of organic matter in the upper 10 inches: 85 percent

Typical profile:

Oa1,Oa2—0 to 11 inches; muck Oa3—11 to 23 inches; muck Cg—23 to 60 inches; loam

#### Hamre

Extent: 0 to 10 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)

Shallowest ponding: 0.3 foot (July, August, September) Deepest ponding: 0.5 foot (January, February, March,

April, May, June, October, November, December) Available water capacity to a depth of 60 inches: 13.3

inches
Content of organic matter in the upper 10 inches: 85

percent Typical profile:

> Oa—0 to 13 inches; muck A—13 to 18 inches; loam Bg1,Bg2—18 to 60 inches; loam

#### Kratka

Extent: 0 to 10 percent of the unit

Geomorphic component: Swales on lake plains; flats on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand 2Cg2..2Cg4—25 to 80 inches; loam

#### Northwood

Extent: 0 to 10 percent of the unit Geomorphic component: Depressions on lake plains Slope range: 0 to 1 percent Texture of the surface layer: Muck Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over glaciolacustrine deposits and/or till

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May)

Deepest depth to wet zone: 2.5 feet (February)
Shallowest ponding: 0.3 foot (July, August,
September)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, October, November, December)

Available water capacity to a depth of 60 inches: 11.3 inches

Content of organic matter in the upper 10 inches: 78.6 percent

Typical profile:

Oa—0 to 9 inches; muck A—9 to 14 inches; loamy fine sand Bg1,Bg2—14 to 24 inches; fine sand 2BCkg,2Cg—24 to 80 inches; loam

#### **Roliss**

Extent: 0 to 10 percent of the unit

Geomorphic component: Flats on lake plains; swales on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.7 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap,A—0 to 14 inches; loam Bg—14 to 20 inches; loam Cq1..Cq4—20 to 80 inches; loam

#### Seelyeville, ponded

Extent: 0 to 10 percent of the unit Geomorphic component: Depressions on lake plains Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained Parent material: Organic materials

Flooding: None

Shallowest depth to wet zone: At the surface (all year)

Ponding depth: 1 foot (all year)

Available water capacity to a depth of 60 inches: 25.1

inches

Content of organic matter in the upper 10 inches: 90 percent

Typical profile:

Oa1—0 to 10 inches; muck
Oa2..Oa5—10 to 80 inches; muck

# Major Uses of the Map Unit

Wetland wildlife habitat

# I72A—Pelan sandy loam, MLRA 56, 0 to 3 percent slopes

# **Component Description**

#### Pelan and similar soils

Extent: 65 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Pondina: None

Available water capacity to a depth of 60 inches: 8.5

inches

Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap-0 to 6 inches; sandy loam

E—6 to 9 inches; sand

Bt—9 to 14 inches; very gravelly sandy loam Bw—14 to 20 inches; very gravelly coarse sand

2Bw-20 to 60 inches: loam

#### **Smiley**

Extent: 10 percent of the unit

Geomorphic component: Swales on lake plains; flats

on lake plains

Slope range: 0 to 2 percent
Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Till Floodina: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 3.8 feet (August)
Months when ponding does not occur: January,
February, March, July, August, December

Deepest ponding: 0.3 foot (April, May, June, September, October, November)

Available water capacity to a depth of 60 inches: 10.8 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:

Ap—0 to 12 inches; loam Btg—12 to 19 inches; clay loam Bkg1..Bkg3—19 to 42 inches; loam Cg1,Cg2—42 to 80 inches; loam

#### Linveldt

Extent: 8 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.9 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

Bt—9 to 16 inches; loam

2Bw1,2Bw2—16 to 29 inches; sand

3Bk—29 to 45 inches; loam 3C1..3C3—45 to 80 inches; loam

#### Kratka

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
December

Deepest ponding: 0.3 foot (April, May)

Available water capacity to a depth of 60 inches: 9.1 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap,A—0 to 11 inches; fine sandy loam Bg1,Bg2—11 to 18 inches; loamy fine sand Cg1—18 to 25 inches; fine sand

2Cg2..2Cg4—25 to 80 inches; loam

#### **Strandquist**

Extent: 5 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 4.1 feet (August)
Months when ponding does not occur: January,
February, March, July, August, September,
November, December

Deepest ponding: 0.3 foot (April, May, June, October) Available water capacity to a depth of 60 inches: 9.3 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; loam 2Bg1—10 to 20 inches; very gravelly sand 3Bg2,3Cg—20 to 60 inches; loam

#### Reiner

Extent: 4 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.2

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap—0 to 7 inches; fine sandy loam Bt—7 to 17 inches; clay loam Bw,Bk1,Bk2—17 to 35 inches; loam C1..C3—35 to 80 inches; loam

#### Eckvoll

Extent: 3 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Glaciolacustrine deposits over till

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 8.3

inches

Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand E1,E2—9 to 25 inches; fine sand 2Bt—25 to 32 inches; sandy clay loam 2BCk,2C1,2C2—32 to 80 inches; loam

### Major Uses of the Map Unit

· Cropland, pasture, or hayland

# I73A—Boash clay loam, 0 to 2 percent slopes

#### Component Description

#### Boash and similar soils

Extent: 75 percent of the unit

Geomorphic component: Flats on lake plains; swales

on lake plains

Slope range: 0 to 2 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60 Drainage class: Poorly drained inches) Parent material: Till Drainage class: Poorly drained Flooding: None Parent material: Till Shallowest depth to wet zone: 0.5 foot (April) Floodina: None Deepest depth to wet zone: 3.8 feet (August) Shallowest depth to wet zone: At the surface (April) Months when ponding does not occur: January, February, March, July, August, December Deepest depth to wet zone: 3 feet (August) Months when ponding does not occur: January, Deepest ponding: 0.3 foot (April, May, June, February, March, December September, October, November) Available water capacity to a depth of 60 inches: 10.7 Deepest ponding: 0.3 foot (April, May, June, November) inches Available water capacity to a depth of 60 inches: 9.9 Content of organic matter in the upper 10 inches: 5 percent Typical profile: Content of organic matter in the upper 10 inches: 4.7 percent Ap,A—0 to 14 inches; loam Typical profile: Bg—14 to 20 inches; loam Ap—0 to 9 inches; clay loam Cg1..Cg4—20 to 80 inches; loam Bg1,Bg2—9 to 29 inches; clay Clearwater, depressional 2Cg1..2Cg3—29 to 80 inches; loam Extent: 5 percent of the unit Clearwater Geomorphic component: Depressions on lake plains Extent: 8 percent of the unit Slope range: 0 to 1 percent Geomorphic component: Flats on lake plains; swales Texture of the surface layer: Mucky clay loam Depth to restrictive feature: Very deep (more than 60 on lake plains Slope range: 0 to 1 percent inches) Texture of the surface layer: Clay Drainage class: Very poorly drained Depth to restrictive feature: Very deep (more than 60 Parent material: Till inches) Flooding: None Drainage class: Poorly drained Shallowest depth to wet zone: At the surface (March, Parent material: Till April, May) Flooding: None Deepest depth to wet zone: 1.6 feet (February, August) Shallowest depth to wet zone: At the surface (April) Ponding depth: 0.5 foot (all year) Deepest depth to wet zone: 3 feet (August) Available water capacity to a depth of 60 inches: 9 Months when ponding does not occur: January, February, March, December Content of organic matter in the upper 10 inches: 8.4 Deepest ponding: 0.3 foot (April, May, June, percent November) Typical profile: Available water capacity to a depth of 60 inches: 8.2 Ap—0 to 8 inches; mucky clay loam Bss1,Bss2—8 to 35 inches; clay Content of organic matter in the upper 10 inches: 4.2 Cg1,Cg2—35 to 80 inches; clay percent **Kittson** Typical profile: Ap—0 to 8 inches; clay Extent: 2 percent of the unit Geomorphic component: Rises on lake plains Bss1,Bss2—8 to 35 inches; clay Cg1,Cg2—35 to 80 inches; clay Slope range: 0 to 3 percent Texture of the surface layer: Loam **Roliss** Depth to restrictive feature: Very deep (more than 60 Extent: 8 percent of the unit inches) Geomorphic component: Flats on lake plains; swales Drainage class: Moderately well drained

on lake plains Slope range: 0 to 2 percent

inches)

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

Parent material: Glaciolacustrine deposits over till

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 6.7 feet (transitory)

Flooding: None

(August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.5

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap-0 to 10 inches; loam

Bw—10 to 17 inches; fine sandy loam 2Bk1,2Bk2—17 to 36 inches; loam 2C—36 to 60 inches; loam

#### Newfolden

Extent: 2 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Till Flooding: None

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 10.4

inches

Content of organic matter in the upper 10 inches: 2.3 percent

Typical profile:

Ap—0 to 7 inches; loam Bt—7 to 16 inches; clay

2Bk1,2Bk2—16 to 36 inches; clay loam

2CBk-36 to 80 inches; loam

# Major Uses of the Map Unit

Cropland

# I74A—Urban land-Endoaquents complex, 0 to 3 percent slopes

### Component Description

# **Urban land**

Extent: 40 to 90 percent of the unit Geomorphic component: Lake plains

Slope range: 0 to 3 percent

General definition: Urban land consists mostly of residential, commercial, and industrial areas.

About 35 to 80 percent of the land area is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component,

interpretations for specific uses are not available. Onsite investigation is needed.

# **Endoaquents and similar soils**

Extent: 10 to 60 percent of the unit Geomorphic component: Lake plains

Slope range: 0 to 2 percent

Depth to restrictive feature: Very deep (more than 60

inches)

Parent material: Various materials

General definition: Endoaquents are areas in which the hydrology has been altered to some degree as a result of development. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

# Major Uses of the Map Unit

• Residential, commercial, and industrial development

# I75A—Radium-Sandberg-Garborg complex, 0 to 3 percent slopes

# Component Description

#### Radium and similar soils

Extent: 40 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 3.8

inches

Content of organic matter in the upper 10 inches: 2 percent

Typical profile:

Ap—0 to 14 inches; loamy sand Bw1,Bw2—14 to 33 inches; sand

C1—33 to 43 inches; very gravelly coarse sand

C2..C4—43 to 80 inches; sand

#### Sandberg and similar soils

Extent: 20 percent of the unit

Geomorphic component: Beach ridges

Position on the landform: Shoulders, summits, and

backslopes

Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Excessively drained Parent material: Beach deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 3.1

inches

Content of organic matter in the upper 10 inches: 2

percent Typical profile:

Ap,A—0 to 12 inches; loamy sand

Bw—12 to 19 inches; gravelly loamy coarse sand

Bk—19 to 29 inches; gravelly coarse sand C—29 to 80 inches; gravelly coarse sand

# Garborg and similar soils

Extent: 15 percent of the unit

Geomorphic component: Flats on lake plains; rises on

lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Somewhat poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April) Deepest depth to wet zone: More than 6.7 feet

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.2

inches

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

Ap,A—0 to 12 inches; loamy fine sand

Bw1..Bw3—12 to 41 inches; loamy fine sand

BCk—41 to 59 inches; fine sand C1,C2—59 to 80 inches; fine sand

### Oylen

Extent: 10 percent of the unit

Geomorphic component: Beach ridges Position on the landform: Backslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 3 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

inches

Content of organic matter in the upper 10 inches: 3

percent Typical profile:

Ap—0 to 10 inches; sandy loam Bt—10 to 18 inches; sandy loam

2Bw—18 to 38 inches; sand

2C-38 to 80 inches; gravelly coarse sand

#### **Flaming**

Extent: 5 percent of the unit

Geomorphic component: Rises on lake plains

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Moderately well drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July,

August)
Ponding: None

Available water capacity to a depth of 60 inches: 4.9

inches

Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap,A-0 to 12 inches; loamy fine sand

BA—12 to 17 inches; fine sand Bw—17 to 27 inches; fine sand C1,C2—27 to 60 inches; fine sand

#### Karlsruhe

Extent: 3 percent of the unit

Geomorphic component: Rises on beach plains

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches

Drainage class: Somewhat poorly drained

Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 2 feet (April)
Deepest depth to wet zone: 6.7 feet (transitory)

(August)
Ponding: None

Available water capacity to a depth of 60 inches: 5.2 inches

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:

A,Ak,ABk—0 to 15 inches; sandy loam Bk,BCk—15 to 30 inches; loamy sand C1..C2—30 to 60 inches; coarse sand

#### Venlo

Extent: 3 percent of the unit

Geomorphic component: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Very poorly drained Parent material: Glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April)

Deepest depth to wet zone: 3 feet (February, August)

Shallowest ponding: 0.3 foot (July, August, September,

October)

Deepest ponding: 0.5 foot (January, February, March, April, May, June, November, December)

Available water capacity to a depth of 60 inches: 5.4 inches

Content of organic matter in the upper 10 inches: 10 percent

Typical profile:

A—0 to 13 inches; fine sandy loam Cg1,Cg2—13 to 60 inches; fine sand

#### Hangaard

Extent: 2 percent of the unit

Geomorphic component: Flats on beach plains; swales

on beach plains Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Poorly drained Parent material: Beach deposits

Flooding: None

Shallowest depth to wet zone: 0.3 foot (April)

Deepest depth to wet zone: 3.3 feet (February, August)

Months when ponding does not occur: January, February, March, July, August, September,

October, November, December Deepest ponding: 0.3 foot (April, May) Available water capacity to a depth of 60 inches: 3

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:

Ap—0 to 10 inches; sandy loam A—10 to 15 inches; loamy sand

Cg1..Cg5—15 to 80 inches; gravelly coarse sand

### Sioux

Extent: 2 percent of the unit

Geomorphic component: Beach ridges

Position on the landform: Shoulders and summits

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60

inches)

Drainage class: Excessively drained Parent material: Beach deposits

Flooding: None

Depth to wet zone: More than 6.7 feet (all year)

Ponding: None

Available water capacity to a depth of 60 inches: 3.6

inches

Content of organic matter in the upper 10 inches: 1.4

percent Typical profile:

A—0 to 5 inches; sandy loam

AC—5 to 8 inches; gravelly sandy loam C—8 to 60 inches; very gravelly sand

#### Major Uses of the Map Unit

Hayland or pasture

# M-W-Miscellaneous water

### **General Description**

• This map unit consists of bodies of water that have been constructed, including sewage lagoons, stormwater sediment basins with a permanent pool of water, and aquaculture ponds.

### W—Water

# General Description

 This map unit consists of naturally occurring bodies of water or bodies of water that have been impounded by structures in natural waterways.

Table 2.--Acreage and Proportionate Extent of the Soils

	1		
Map	Soil name	Acres	  Percent
symbol			į
	1	L	I
B109A	Bowstring and Fluvaquents soils, Des Moines, 0 to 2 percent slopes,		<u> </u>
	frequently flooded	•	*
B200A	Garnes fine sandy loam, Des Moines, 0 to 3 percent slopes		:
B201A	Chilgren fine sandy loam, Des Moines, 0 to 2 percent slopes		:
B202A B203A	Cathro muck, depressional, Des Moines, 0 to 1 percent slopes		:
B203A B204A	Roliss loam, Des Moines, 0 to 2 percent slopes		:
B205A	Berner muck, depressional, Des Moines, 0 to 1 percent slopes	•	!
B206A	Hamre muck, depressional, Des Moines, 0 to 1 percent slopes	•	:
B207A	Pelan sandy loam, Des Moines, 0 to 3 percent slopes	52	*
B208A	Grygla loamy fine sand, Des Moines, 0 to 2 percent slopes	•	*
B209A	Seelyeville muck, depressional, Des Moines, 0 to 1 percent slopes	•	!
B210A	Eckvoll loamy fine sand, Des Moines, 0 to 3 percent slopes		:
B211A	Berner and Cathro soils, ponded, Des Moines, 0 to 1 percent slopes		:
I1A I3A	Augsburg loam, 0 to 2 percent slopes		:
I4A	Berner, Rosewood, and Strathcona soils, seepy, 0 to 2 percent slopes		:
I5A	Borup loam, 0 to 2 percent slopes		:
17A	Bowstring-Fluvaquents complex, 0 to 2 percent slopes, frequently flooded		:
I8A	Cathro muck, 0 to 1 percent slopes		:
I9A	Clearwater clay, 0 to 2 percent slopes		3.1
I11A	Deerwood muck, 0 to 1 percent slopes		0.8
I12A	Eckvoll loamy fine sand, 0 to 3 percent slopes		1.4
I13A	Espelie fine sandy loam, 0 to 2 percent slopes		:
I15A	Flaming loamy fine sand, 0 to 3 percent slopes	4,743	1.2
I16F	Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent   slopes		
I17A	Foldahl fine sandy loam, 0 to 3 percent slopes		:
I17A I18A	Foldahl loamy fine sand, 0 to 3 percent slopes		:
I19A	Foxhome sandy loam, 0 to 3 percent slopes		!
I20A	Foxlake loam, 0 to 2 percent slopes		:
122A	Glyndon loam, 0 to 2 percent slopes		0.7
124A	Grimstad fine sandy loam, 0 to 3 percent slopes	4,262	1.1
125A	Hamar loamy fine sand, 0 to 2 percent slopes		0.2
126A	Hamerly loam, 0 to 2 percent slopes		:
127A	Hamre muck, 0 to 1 percent slopes		:
I32A	Hilaire fine sandy loam, 0 to 3 percent slopes		:
I34A	Huot fine sandy loam, 0 to 3 percent slopes		:
136A 138A	Kittson loam, 0 to 3 percent slopes   Kratka fine sandy loam, 0 to 2 percent slopes		:
139A	Linveldt fine sandy loam, 0 to 3 percent slopes	11,746	:
I41A	Markey muck, 0 to 1 percent slopes		:
142A	Markey muck, ponded, 0 to 1 percent slopes	523	:
143A	Mavie fine sandy loam, 0 to 2 percent slopes	5,324	1.3
<b>144</b> A	Newfolden loam, 0 to 3 percent slopes		0.5
I45A	Northwood muck, 0 to 1 percent slopes		:
I46A	Pits, gravel and sand		:
I47A	Poppleton fine sand, 0 to 2 percent slopes		:
I48A	Radium loamy sand, 0 to 3 percent slopes		:
I50A I51A	Reiner loamy fine sand, 0 to 3 percent slopes		:
151A	Reis-Clearwater complex, 0 to 2 percent slopes		:
153A	Roliss loam, 0 to 2 percent slopes		•
I54A	Roliss loam, depressional, 0 to 1 percent slopes		:
I55A	Rosewood fine sandy loam, 0 to 2 percent slopes		:
I57B	Sandberg-Radium complex, 1 to 6 percent slopes		0.1
I58A	Seelyeville muck, 0 to 1 percent slopes	•	*
I59A	Smiley loam, 0 to 2 percent slopes		:
I60A	Smiley mucky loam, depressional, 0 to 1 percent slopes		:
I61A	Strandquist loam, 0 to 2 percent slopes	662	0.2
	ı	I	I

See footnote at end of table.

Table 2.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
			<u> </u>
I62A	Syrene sandy loam, 0 to 2 percent slopes	2,708	0.7
163A	Thiefriver fine sandy loam, 0 to 2 percent slopes	2,942	0.7
I64A	Ulen fine sandy loam, 0 to 3 percent slopes	3,169	0.8
I65A	Ulen loamy fine sand, 0 to 3 percent slopes	456	0.1
I66A	Vallers loam, 0 to 2 percent slopes	8,159	2.1
167A	Wheatville loam, 0 to 3 percent slopes	1,237	0.3
169A	Wyandotte clay loam, 0 to 2 percent slopes	5,531	1.4
170A	Strathcona fine sandy loam, 0 to 2 percent slopes	11,808	3.0
171A	Berner and Cathro soils, ponded, MLRA 56, 0 to 1 percent slopes	365	*
172A	Pelan sandy loam, MLRA 56, 0 to 3 percent slopes	1,927	0.5
173A	Boash clay loam, 0 to 2 percent slopes	2,352	0.6
174A	Urban land-Endoaquents complex, 0 to 3 percent slopes	2,332	0.6
175A	Radium-Sandberg-Garborg complex, 0 to 3 percent slopes	8,503	2.2
M-W	Miscellaneous water	369	*
W	Water	1,210	0.3
	Total	395,400	100.0

<sup>\*</sup> Less than 0.1 percent.

# Use and Management of the Soils

This soil survey is an inventory and evaluation of the soils in the survey area. It can be used to adjust land uses to the limitations and potentials of natural resources and the environment. Also, it can help to prevent soil-related failures in land uses.

In preparing a soil survey, soil scientists, conservationists, engineers, and others collect extensive field data about the nature and behavioral characteristics of the soils. They collect data on erosion, droughtiness, flooding, and other factors that affect various soil uses and management. Field experience and collected data on soil properties and performance are used as a basis in predicting soil behavior.

Information in this section can be used to plan the use and management of soils for crops and pasture; as forest land; as sites for buildings, highways and other transportation systems, and parks and other recreational facilities; and as wildlife habitat. It can be used to identify the potentials and limitations of each soil for specific land uses and to help prevent construction failures caused by unfavorable soil properties.

Planners and others using soil survey information can evaluate the effect of specific land uses on productivity and on the environment in all or part of the survey area. The survey can help planners to maintain or create a land use pattern in harmony with the natural soil.

Contractors can use this survey to locate sources of sand and gravel, roadfill, and topsoil. They can use it to identify areas where bedrock, wetness, or very firm soil layers can cause difficulty in excavation.

Health officials, highway officials, engineers, and others may also find this survey useful. The survey can help them plan the safe disposal of wastes and locate sites for pavements, sidewalks, campgrounds, playgrounds, lawns, and trees and shrubs.

# **Interpretive Ratings**

The interpretive tables in this survey rate the soils in the survey area for various uses. Many of the tables identify the limitations that affect specified uses and indicate the severity of those limitations. The ratings in these tables are both verbal and numerical.

# **Rating Class Terms**

Rating classes are expressed in the tables in terms that indicate the extent to which the soils are limited by all of the soil features that affect a specified use or in terms that indicate the suitability of the soils for the use. Thus, the tables may show limitation classes or suitability classes. Terms for the limitation classes are not limited, somewhat limited, and very limited. The suitability ratings are expressed as well suited, moderately suited, poorly suited, and unsuited or as good, fair, and poor.

# **Numerical Ratings**

Numerical ratings in the tables indicate the relative severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use and the point at which the soil feature is not a limitation. The limitations appear in order from the most limiting to the least limiting. Thus, if more than one limitation is identified, the most severe limitation is listed first and the least severe one is listed last.

# **Crops and Pasture**

General management needed for crops and for hay and pasture is suggested in this section. Climate information for the survey area is provided, the estimated yields of the main crops and hay and pasture plants are listed, the system of land capability classification used by the Natural Resources Conservation Service is explained, and prime farmland is described. Planners of management systems for individual fields or farms should consider obtaining specific information from the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

#### Climate

Table 3a gives data on temperature and precipitation for the survey area as recorded at Oklee during the period from 1961 to 1990. Table 3b gives this data as recorded at Red Lake Falls during the period from 1971 to 2000. Table 4 shows probable dates of the first freeze in fall and the last freeze in spring. Table 5 provides data on length of the growing season.

In winter, the average temperature is about 6 degrees F and the average daily minimum temperature is -4 degrees. The lowest temperature during the period of record, which occurred at Thief River Falls on January 18, 1970, is -44 degrees. In summer, the average temperature is about 66 degrees and the average daily maximum temperature is about 78 degrees. The highest temperature, which occurred at Thief River Falls on May 21, 1964, is 100 degrees.

Growing degree days are shown in table 3a. They are equivalent to "heat units." During the month, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (40 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

The total annual precipitation is about 23 inches. Most of the rainfall occurs between April and September. The average total annual snowfall is about 49 inches at Red Lake Falls and about 37 inches at Oklee.

# **Cropland Management Considerations**

The management concerns affecting the use of the soil map units in the survey area for crops are shown in table 6. The main concerns in managing nonirrigated cropland are conserving moisture, controlling wind erosion and water erosion, and maintaining soil fertility.

Conserving moisture consists primarily of reducing the evaporation and runoff rates and increasing the water infiltration rate. Applying conservation tillage and conservation cropping systems, farming on the contour, stripcropping, establishing field windbreaks, and leaving crop residue on the surface conserve moisture.

Generally, a combination of several practices is needed to control wind erosion and water erosion. Conservation tillage, stripcropping, field windbreaks, contour farming, conservation cropping systems, crop residue management, terraces, diversions, and grassed waterways help to prevent excessive soil loss.

Measures that are effective in maintaining *soil* fertility include applying fertilizer, both organic and inorganic, including manure; incorporating crop residue or green manure crops into the soil; and using proper crop rotations. Controlling erosion helps to prevent the loss of organic matter and plant nutrients and thus helps to maintain productivity, although the level of fertility can be reduced even in areas where erosion is controlled. All soils used for nonirrigated crops respond well to applications of fertilizer.

Some of the considerations shown in the table cannot be easily overcome. These are channels, flooding, gullies, and ponding.

Additional considerations are as follows:

Lime content, limited available water capacity, limited content of organic matter, potential poor tilth and compaction, and restricted permeability.—These limitations can be minimized by incorporating green manure crops, manure, or crop residue into the soil; applying a system of conservation tillage; and using conservation cropping systems. Also, crops may respond well to additions of phosphate fertilizer to soils that have a high content of lime.

Potential for ground-water contamination.—The proper use of nutrients and pesticides can reduce the risk of ground-water contamination.

Potential for surface-water contamination.—The risk of surface-water contamination can be reduced by the proper use of nutrients and pesticides and by conservation farming practices that reduce the runoff rate

Surface crusting.—This limitation retards seedling development after periods of heavy rainfall.

Surface rock fragments.—This limitation causes rapid wear of tillage equipment. It cannot be easily overcome.

Surface stones.—Stones or boulders on or near the surface can hinder normal tillage unless they are removed.

*Salt content.*—In areas where this is a limitation, only salt-tolerant crops should be grown.

On irrigated soils the main management concerns are efficient water use, nutrient management, control of erosion, pest and weed control, and timely planting and harvesting for a successful crop. An irrigation system that provides optimum control and distribution of water at minimum cost is needed. Overirrigation wastes water, leaches plant nutrients, and causes erosion. Also, it can increase wetness and soil salinity.

#### **Explanation of Criteria**

Acid soil.—The pH is less than 6.1. Channeled.—The word "channeled" is included in the map unit name.

*Dense layer.*—The bulk density is 1.80 g/cc or greater within the soil profile.

Depth to rock.—The depth to bedrock is less than 40 inches.

*Eroded.*—The word "eroded" is included in the map unit name.

Excessive permeability.—Saturated hydraulic conductivity is 42 micrometers per second or more within the soil profile.

*Flooding.*—Flooding is occasional, frequent, or very frequent.

*Gullied.*—The word "gullied" is included in the map unit name.

High content of organic matter.—The surface layer has more than 20 percent organic matter.

*Lime content.*—The pH is 7.4 or more in the surface layer, or the wind erodibility group is 4L.

Limited available water capacity.—The available water capacity calculated to a depth of 60 inches or to a root-limiting layer is 6 inches or less.

Limited content of organic matter.—The content of organic matter is 2 percent or less in the surface layer.

*Ponding.*—Ponding duration is assigned to the soil. Water is above the surface.

Potential poor tilth and compaction.—The content of clay is 27 percent or more in the surface layer.

Potential for ground-water contamination (by nutrients or pesticides).—The depth to a zone in which the soil moisture status is wet is 4 feet or less, the saturated hydraulic conductivity of any layer is more than 42 micrometers per second, or the depth to bedrock is less than 60 inches.

Potential for surface-water contamination (by nutrients or pesticides).—The soil is occasionally, frequently, or very frequently flooded, is subject to ponding, is assigned to hydrologic group C or D and has a slope of more than 2 percent, is assigned to hydrologic group A and has a slope of more than 6 percent, or is assigned to hydrologic group B, has a slope of 3 percent or more, and has a K factor of more than 0.17.

*Previously eroded.*—The word "eroded" is included in the map unit name.

Restricted permeability.—Saturated hydraulic conductivity is less than 0.42 micrometer per second within the soil profile.

Salt content.—The electrical conductivity is 4 or more in the surface layer or 8 or more within a depth of 30 inches.

*Slope* (equipment limitation).—The slope is more than 15 percent.

Surface crusting.—The content of clay is 27 percent or more and the content of organic matter is 2 percent or less in the surface layer.

Surface rock fragments (equipment limitation).— The terms describing the texture of the surface layer include any rock fragment modifier, except for gravelly, channery, stony, very stony, extremely stony, bouldery, very bouldery, and extremely bouldery.

Surface stones (equipment limitation).—The word "stony" or "bouldery" is included in the description of the surface layer, or 0.01 percent or more of the surface is covered by boulders.

Water erosion.—Either the slope is 6 percent or more, or the slope is more than 3 percent and less than 6 percent and the surface layer is not sandy.

Wet soil moisture status.—A zone in which the soil moisture status is wet is within 2.5 feet of the surface.

Wind erosion.—The wind erodibility group is 1, 2, 3, or 4L.

Hydrologic groups are described under the heading "Water Features." Erosion factors (e.g., K factor) and wind erodibility groups are described under the heading "Physical and Chemical Properties."

# **Crop Yield Estimates**

The average yields per acre that can be expected of the principal crops and hay and pasture plants under a high level of management are shown in table 7. In any given year, yields may be higher or lower than those indicated in the table because of variations in rainfall and other climatic factors. The land capability classification of the soils in the survey area also is shown in the table.

The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations also are considered.

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include drainage, erosion control, and protection from flooding; the proper planting and seeding rates; suitable high-yielding crop varieties; appropriate and timely tillage; control of weeds, plant diseases, and harmful insects; favorable soil reaction and optimum levels of nitrogen, phosphorus, potassium, and trace elements for each crop; effective use of crop residue, barnyard manure, and green manure crops; and harvesting that ensures the smallest possible loss.

The estimated yields reflect the productive capacity of each soil for each of the principal crops. Yields are likely to increase as new production technology is developed. The productivity of a given soil compared with that of other soils, however, is not likely to change.

Crops other than those shown in the table are grown in the survey area, but estimated yields are not listed because the acreage of such crops is small. The local office of the Natural Resources Conservation Service or of the Cooperative Extension Service can provide information about the management and productivity of the soils for those crops.

### **Pasture and Hayland Interpretations**

Soils are assigned to forage suitability groups according to their suitability for the production of forage vegetation. The soils in each group are similar enough to be suited to the same species of grasses or legumes, have similar limitations and hazards, require similar management, and have similar productivity levels and other responses to management. The forage suitability groups of the soils in the survey area are listed in table 8. Detailed descriptions of forage suitability groups are available at local offices of the Natural Resources Conservation Service.

Under good management, proper grazing is essential for the production of high-quality forage, stand survival, and erosion control. Proper grazing helps plants to maintain sufficient and generally vigorous top growth during the growing season. Brush control is essential in many areas, and weed control generally is needed. Rotation grazing and renovation also are important management practices.

Yield estimates are often provided in animal unit months (AUM), or the amount of forage or feed required to feed one animal unit (one cow, one horse, one mule, five sheep, or five goats) for 30 days.

The local office of the Natural Resources Conservation Service or of the Cooperative Extension Service can provide information about forage yields other than those shown in table 7.

### Land Capability Classification

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not take into account major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for woodland or for engineering purposes.

In the capability system, soils generally are grouped at three levels—capability class, subclass, and unit (USDA, 1961). These categories indicate the degree and kinds of limitations affecting mechanized farming systems that produce the more commonly grown field crops, such as corn, small grain, cotton, hay, and field-grown vegetables. Only class and subclass are used in this survey.

Capability classes, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use.

If properly managed, soils in classes 1, 2, 3, and 4 are suitable for the mechanized production of commonly grown field crops and for pasture and woodland. The degree of the soil limitations affecting the production of cultivated crops increases progressively from class 1 to class 4. The limitations can affect levels of production and the risk of permanent soil deterioration caused by erosion and other factors.

Soils in classes 5, 6, and 7 are generally not suited to the mechanized production of commonly grown field crops without special management, but they are suitable for plants that provide a permanent cover, such as grasses and trees. The severity of the soil limitations affecting crops increases progressively from class 5 to class 7.

Areas in class 8 are generally not suitable for crops, pasture, or woodland without a level of management that is impractical. These areas may have potential for other uses, such as recreational facilities and wildlife habitat.

Capability subclasses identify the dominant kind of limitation in the class. They are designated by adding a small letter, *e, w, s,* or *c,* to the class numeral, for example, 2e. The letter *e* shows that the main hazard is the risk of erosion unless a close-growing plant cover is maintained; *w* shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); *s* shows that the soil is limited mainly because it is shallow, droughty, or stony; and *c,* used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

There are no subclasses in class 1 because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by *w, s,* or *c* because the soils in class 5 are subject to little or no erosion. They have other limitations that restrict their use mainly to pasture, woodland, wildlife habitat, or recreation.

The capability classification of the soils in the survey area is given in the yields table.

#### **Prime Farmland**

Prime farmland is of major importance in meeting the Nation's short- and long-range needs for food and fiber. The acreage of high-quality farmland is limited, and the U.S. Department of Agriculture recognizes that government at local, State, and Federal levels, as well as individuals, must encourage and facilitate the wise use of our Nation's prime farmland.

Prime farmland soils, as defined by the U.S. Department of Agriculture, are soils that are best suited to food, feed, forage, fiber, and oilseed crops. Such soils have properties that favor the economic production of sustained high yields of crops. The soils need only to be treated and managed by acceptable farming methods. An adequate moisture supply and a sufficiently long growing season are required. Prime farmland soils produce the highest yields with minimal expenditure of energy and economic resources, and farming these soils results in the least damage to the environment.

Prime farmland soils may presently be used as cropland, pasture, or woodland or for other purposes. They either are used for food and fiber or are available for these uses. Urban or built-up land, public land, and water areas cannot be considered prime farmland. Urban or built-up land is any contiguous unit of land 10 acres or more in size that is used for such purposes as housing, industrial, and commercial sites, sites for institutions or public buildings, small parks, golf courses, cemeteries, railroad yards, airports, sanitary landfills, sewage treatment plants, and water-control structures. Public land is land not available for farming in National forests, National parks, military reservations, and State parks.

Prime farmland soils commonly receive an adequate and dependable supply of moisture from precipitation or irrigation. The temperature and growing season are favorable, and the level of acidity or alkalinity and the content of salts and sodium are acceptable. The soils have few, if any, rocks and are permeable to water and air. They are not excessively erodible or saturated with water for long periods, and they are not frequently flooded during the growing season or are protected from flooding. Slopes range mainly from 0 to 6 percent.

Soils in which a zone with a wet soil moisture status is high in the profile or soils that are subject to flooding may qualify as prime farmland where these limitations are overcome by drainage measures or flood control. Onsite evaluation is necessary to determine the effectiveness of corrective measures. More information about the criteria for prime farmland can be obtained

at the local office of the Natural Resources Conservation Service.

A recent trend in land use has been the conversion of prime farmland to urban and industrial uses. The loss of prime farmland to other uses puts pressure on lands that are less productive than prime farmland.

The map units in the survey area that meet the requirements for prime farmland are listed in table 9. This list does not constitute a recommendation for a particular land use. On some soils included in the table, measures that overcome limitations are needed. The need for these measures is indicated in parentheses after the map unit name. The location of each map unit is shown on the soil maps. The soil qualities that affect use and management are described in the section "Soil Map Unit Descriptions."

# Windbreaks and Environmental Plantings

Windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low- and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, and provide food and cover for wildlife.

Environmental plantings help to beautify and screen houses and other buildings and to abate noise. The plants, mostly evergreen shrubs and trees, are closely spaced. To ensure plant survival, a healthy planting stock of suitable species should be planted properly on a well prepared site and maintained in good condition.

Windbreaks are often planted on land that did not originally support trees. Knowledge of how trees perform on such land can be gained only by observing and recording the performance of trees that have been planted and have survived. Many popular windbreak species are not indigenous to the areas in which they are planted.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters, a tree or shrub may grow well or grow poorly, depending on the characteristics of the soil. Each tree or shrub has definable potential heights in a given physiographic area and under a given climate. Accurate definitions of potential heights are necessary when a windbreak is planned and designed.

Table 10 shows the height that locally grown trees and shrubs are expected to reach in 20 years on various soils. The estimates in this table are based on measurements and observation of established plantings that have been given adequate care. They can be used as a guide in planning windbreaks and screens. Additional information on planning windbreaks and screens and planting and caring for trees and shrubs can be obtained from local offices of the Natural Resources Conservation Service or the Cooperative Extension Service or from a nursery.

# **Conservation Tree/Shrub Suitability Groups**

Conservation tree/shrub suitability groups consist of soils in which the kinds and degrees of the hazards and limitations that affect the survival and growth of trees and shrubs in conservation plantings are about the same. The conservation tree/shrub suitability groups assigned to the soils in the survey area are listed in table 11. Descriptions of the groups are provided in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet at http://soils.usda.gov/technical/.

# **Hybrid Poplar Ratings**

Wendell Johnson, University of Minnesota, Crookston, and Ed Wene, Agriculture Utilization and Research Institute, helped prepare this section.

Hybrid poplars are grown as an alternative crop or as a practice called "short rotation forestry." The trees grow rapidly and have the ability to produce high yields for fuel, pulp, and a variety of wood products. Poplars can also protect soils from wind erosion and water erosion and prevent the runoff of nutrients into streams. Proper site selection, site preparation, selection of planting stock, fertilization, and weed control are important for a successful crop.

Hybrid poplars grow well under a wide range of environmental conditions, but the prairie-forest fringe area generally has the most desirable soil and climatic conditions. Hybrid poplar performs best on medium textured soils that have good fertility and that have reaction ranging from medium acid to slightly alkaline. Ample moisture is especially important during the establishment of the crop. The plants are tolerant of wet soils and standing water for short periods of time. Rock fragments on the surface are a limitation in localized areas of the till-derived soils. This feature can present additional expense in site preparation and equipment wear. Water erosion and wind erosion may

be hazards, especially when a new crop is being established.

Table 12 lists factors that affect the soils for the growth of hybrid poplars. The soils were evaluated using the most current data available. The factors considered include acidity, lime content, available water capacity, content of organic matter, permeability, potential for surface-water and ground-water contamination, ponding, slope, and a zone in which the soil moisture status is wet. Further information is available at the University of Minnesota Northwest Research and Outreach Center and the Agriculture Utilization and Research Institute in Crookston, Minnesota.

An explanation of the factors considered and the criteria used in evaluating the soils are provided in the following paragraphs.

Acid soil.—The pH is less than 5.6. If the pH of a mineral soil is low, some plant nutrients may become unavailable and others become so soluble that they become toxic to plants.

High content of organic matter.—The content of organic matter in the upper 20 inches is more than 8 percent. Organic soils and mineral soils that have a high content of organic matter can make site preparation difficult, reduce cutting survival by desiccation, inhibit herbicide performance, and increase the likelihood of windthrow.

Lime content.—The pH is 7.9 or more, or the calcium carbonate equivalent is 15 percent or more in the upper 20 inches. The availability and uptake of some plant nutrients can be restricted.

Limited available water capacity.—The available water capacity calculated to a depth of 60 inches or to a root-limiting layer is 9 inches or less. Adequate moisture is especially important to ensure cutting survival and good root development.

Limited content of organic matter.—The content of organic matter in the upper 6 inches is 1 percent or less. Sufficient organic matter improves tilth and increases fertility.

*Ponding.*—Ponding duration is more than 4 days during the period from June through August. Water is above the surface.

Potential for ground-water contamination (by nutrients or pesticides).—The depth to a zone in which the soil moisture status is wet is 4 feet or less, the saturated hydraulic conductivity of any layer is more than 42 micrometers per second, or the depth to bedrock is less than 60 inches.

Potential for surface-water contamination (by nutrients or pesticides).—The soil is occasionally flooded or frequently flooded, is subject to ponding, is

assigned to hydrologic group C or D and has a slope of more than 2 percent, is assigned to hydrologic group A and has a slope of more than 6 percent, or is assigned to hydrologic group B, has a slope of 3 percent or more, and has a K factor of more than 0.17.

Restricted permeability.—Saturated hydraulic conductivity is less than 1.4 micrometer per second within the top 20 inches of the soil profile. In soils that have a high content of clay, root development may be limited and the movement of water and nutrients may be restricted.

Slope.—The slope is more than 4 percent.

Water erosion.—Either the slope is 6 percent or more, or the slope is more than 3 percent and less

than 6 percent and the surface layer is not sandy. Wet soil moisture status.—A zone in which the soil moisture status is wet is within 10 inches of the surface during the growing season.

*Wind erosion.*—The wind erodibility group is 1, 2, 3, or 4L.

# Forest Land Management and Productivity

The tables in this section can help forest owners or managers plan the use of soils for wood crops. They show the potential productivity of the soils for wood crops and describe the limitations that affect various aspects of forest management.

# Forest Land Harvest Equipment Considerations

Table 13 provides information regarding the use of harvest equipment in areas used as forest land.

For most soils, spring is the most limiting season because of alternate thawing and freezing during snowmelt, causing saturation and low strength of the surface soil layers. When thawing is complete, saturation continues for short periods in well drained soils to nearly all year in very poorly drained depressional soils. Degrees of wetness are generally proportionate to depth to and duration of a zone in which the soil moisture status is wet. Zones of wet soil moisture status generally are lower in the summer during the heavy use of moisture by vegetation and are nearer to the surface during periods when absorbed precipitation is greater than the vegetative requirements. Harvesting during periods of saturation usually results in severe soil damage, except when the soil is frozen. The preferred season for timber harvest on many soils is winter, when wetness and low soil strength can be overcome by freezing.

Considerations shown in the table are as follows:

*Slope.*—The upper limit of the slope range is more than 15 percent.

*Flooding.*—The soil is frequently flooded.

Wetness.—The soil is somewhat poorly drained, poorly drained, or very poorly drained or has a perched zone in which the soil moisture status is wet (any drainage class).

Depth to hard rock.—The depth to hard bedrock is less than 10 inches.

Rubbly surface.—The word "rubbly" is in the map unit name.

Surface stones.—The words "extremely stony" are included in the description of the surface layer, or 3 percent or more of the surface is covered with stones.

Surface boulders.—The word "bouldery" is included in the description of the surface layer, or 0.01 percent or more of the surface is covered with boulders.

*Areas of rock outcrop.*—The words "Rock outcrop" are in the map unit name.

Susceptible to rutting and wheel slippage (low strength).—The AASHTO classification is A-6, A-7, or A-8 in any layer within a depth of 20 inches.

Poor traction (loose sandy material).—The USDA texture includes sand or loamy sand in any layer within a depth of 10 inches.

### **Forest Haul Road Considerations**

Table 14 provides information regarding the use of the soils as haul roads. Haul roads serve as transportation routes from log landings to primary roads. Generally, haul roads are unpaved, but some are graveled.

Considerations shown in the table are as follows:

Slope.—The slope is 8 percent or more. Flooding.—The soil is frequently flooded.

Wetness.—The soil is somewhat poorly drained,

poorly drained, or very poorly drained or has a perched zone in which the soil moisture status is wet (any drainage class).

Depth to hard rock.—The depth to hard bedrock is less than 20 inches.

Depth to soft rock.—The depth to soft bedrock is less than 20 inches.

Surface boulders.— The word "bouldery" is included in the description of the surface layer, or 0.01 percent or more of the surface is covered with boulders.

*Areas of rock outcrop.*—The words "Rock outcrop" are in the map unit name.

Low bearing strength.—The AASHTO classification is A-6, A-7, or A-8 in any layer within a depth of 20 inches

Rubbly surface.—The word "rubbly" is in the map unit name.

# **Forest Log Landing Considerations**

Table 15 provides information regarding the use of the soils as log landings. Log landings are areas where logs are assembled for transportation. Areas that require little or no cutting, filling, or surface preparation are desired.

Considerations shown in the table are as follows: *Slope.*—The slope is more than 6 percent. *Flooding.*—The soil is occasionally flooded or frequently flooded.

Wetness.—The soil is somewhat poorly drained, poorly drained, or very poorly drained or has a perched zone in which the soil moisture status is wet (any drainage class).

Surface boulders.— The word "bouldery" is included in the description of the surface layer, or 0.01 percent or more of the surface is covered with boulders.

*Areas of rock outcrop.*—The words "Rock outcrop" are in the map unit name.

Susceptible to rutting and wheel slippage (low strength).—The AASHTO classification is A-6, A-7, or A-8 in any layer within a depth of 20 inches.

Rubbly surface.—The word "rubbly" is in the map unit name.

# Forest Land Site Preparation and Planting Considerations

Table 16 provides information regarding considerations affecting site preparation and planting in areas used as forest land.

Considerations shown in the table are as follows: *Slope*.—The upper limit of the slope range is more than 15 percent.

Flooding.—The soil is frequently flooded.

Wetness.—The soil is somewhat poorly drained, poorly drained, or very poorly drained or has a perched zone in which the soil moisture status is wet (any drainage class).

Depth to hard rock.—The depth to hard bedrock is less than 20 inches.

Surface stones.— The word "stony" is included in the description of the surface layer, or 0.01 percent or more of the surface is covered with stones.

Surface boulders.— The word "bouldery" is included in the description of the surface layer, or 0.01 percent or more of the surface is covered with boulders.

*Areas of rock outcrop.*—The words "Rock outcrop" are in the map unit name.

Water erosion.—The slope is 8 percent or more. Potential poor tilth and compaction.—The AASHTO classification is A-6 or A-7 in the upper 10 inches. Rubbly surface.—The word "rubbly" is in the map unit name.

Cobbly surface.— The word "cobbly" is included in the description of the surface layer, or 0.1 percent or more of the surface is covered with cobbles.

# **Forest Productivity**

Information about the potential productivity of soils for merchantable or common trees is provided in table 17.

The *potential productivity* of a soil is expressed as a site index and as a volume number.

The *site index* is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even-aged, unmanaged stands. Commonly grown trees are those that woodland managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value, and marketability.

The *volume of wood fiber*, a number, is the yield likely to be produced by the most important trees. This number, expressed as cubic feet per acre per year, indicates the amount of wood fiber produced in a fully stocked, even-aged stand.

*Trees to manage* are those that are suitable for commercial wood production.

#### Recreation

The soils of the survey area are rated in tables 18a and 18b according to limitations that affect their suitability for recreation. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses.

Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected.

Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected.

Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in the tables can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, and water management.

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas.

The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Picnic areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil

properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Playgrounds require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Paths and trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a zone in which the soil moisture status is wet, ponding, flooding, slope, and texture of the surface layer.

Off-road motorcycle trails require little or no site preparation. They are not covered with surfacing material or vegetation. Considerable compaction of the soil material is likely. The ratings are based on the soil properties that influence erodibility, trafficability, dustiness, and the ease of revegetation. These properties are stoniness, slope, depth to a zone in which the soil moisture status is wet, ponding, flooding, and texture of the surface layer.

Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a zone in which the soil moisture status is wet; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40

inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

#### Wildlife Habitat

Soils affect the kind and amount of vegetation that is available to wildlife as food and cover. They also affect the construction of water impoundments. If food, cover, or water is missing, inadequate, or inaccessible, wildlife will be scarce or will not inhabit the area.

If the soils have potential for habitat development, wildlife habitat can be created or improved by planting appropriate vegetation, properly managing the existing plant cover, and fostering the natural establishment of desirable plants.

In table 19, the soils in the survey area are rated according to their potential for providing habitat for various kinds of wildlife. This information can be used in planning parks, wildlife refuges, nature study areas, and other developments for wildlife; in selecting soils that are suitable for establishing, improving, or maintaining specific elements of wildlife habitat; and in determining the intensity of management needed for each element of the habitat.

The potential of the soil is rated good, fair, poor, or very poor. A rating of *good* indicates that the element or kind of habitat is easily established, improved, or maintained. Few or no limitations affect management, and satisfactory results can be expected. A rating of fair indicates that the element or kind of habitat can be established, improved, or maintained in most places. Moderately intensive management is required for satisfactory results. A rating of *poor* indicates that limitations are severe for the designated element or kind of habitat. Habitat can be created, improved, or maintained in most places, but management is difficult and must be intensive. A rating of very poor indicates that restrictions for the element or kind of habitat are very severe and that unsatisfactory results can be expected. Creating, improving, or maintaining habitat is impractical or impossible.

The elements of wildlife habitat are described in the following paragraphs.

Grain and seed crops are domestic grains and seed-producing herbaceous plants used by wildlife. Examples are corn, soybeans, wheat, oats, and barley.

Grasses and legumes are domestic perennial

grasses and herbaceous legumes planted for wildlife food and cover. Examples are bromegrass, timothy, orchardgrass, clover, alfalfa, and wheatgrass.

Wild herbaceous plants are native or naturally established grasses and forbs, including weeds, that provide food and cover for wildlife. Examples are bluestems, indiangrass, blueberry, goldenrod, lambsquarters, dandelions, blackberry, ragweed, and wheatgrass.

The major soil properties affecting the growth of grain and forage crops and wild herbaceous plants are depth of the root zone, texture of the surface layer, the amount of water available to plants, wetness, salinity, and flooding. The length of the growing season also is important.

Hardwood trees and woody understory produce nuts or other fruit, buds, catkins, twigs, bark, and foliage that wildlife eat. Examples are oak, poplar, hickory, birch, maple, green ash, willow, and American elm.

Coniferous plants are cone-bearing trees, shrubs, or ground cover that provide habitat or supply food in the form of browse, seed, or fruit-like cones. Examples are pine, spruce, cedar, and tamarack.

The major soil properties affecting the growth of hardwood and coniferous trees and shrubs are depth of the root zone, the amount of water available to plants, and wetness.

Shrubs are bushy woody plants that produce fruit, buds, twigs, bark, and foliage. Soil properties and features that affect the growth of shrubs are depth of the root zone, available water capacity, salinity, and soil moisture. Examples of shrubs are hawthorn, American plum, redosier dogwood, chokecherry, highbush cranberry, elderberry, gooseberry, serviceberry, silver buffaloberry, and crabapple.

Wetland plants are annual and perennial wild herbaceous plants that grow on moist or wet sites. Submerged or floating aquatic plants are excluded. Wetland plants produce food or cover for wetland wildlife. Examples of these plants are smartweeds, wild millet, rushes, sedges, bulrushes, wild rice, arrowhead, waterplantain, cattail, prairie cordgrass, bluejoint grass, asters, and beggarticks.

The major soil properties affecting wetland plants are texture of the surface layer, wetness, acidity or alkalinity, and slope.

Shallow water areas have an average depth of less than 5 feet. They are useful as habitat for some wildlife species. They are naturally wet areas or are created by dams, levees, or water-control measures in marshes or streams. Examples are waterfowl feeding areas, wildlife watering developments, beaver ponds, and other wildlife ponds.

The major soil properties affecting shallow water areas are depth to bedrock, wetness, surface stoniness, slope, and permeability.

The habitat for various kinds of wildlife is described in the following paragraphs.

Habitat for openland wildlife consists of cropland, pasture, meadows, and areas that are overgrown with grasses, herbs, and shrubs. These areas produce grain and seed crops, grasses and legumes, and wild herbaceous plants. The wildlife attracted to these areas include Hungarian partridge, ring-necked pheasant, bobwhite quail, sharp-tailed grouse, meadowlark, field sparrow, killdeer, cottontail rabbit, and red fox.

Habitat for woodland wildlife consists of areas of hardwoods or conifers or a mixture of these and associated grasses, legumes, and wild herbaceous plants. The wildlife attracted to this habitat include wild turkey, ruffed grouse, thrushes, woodpeckers, owls, tree squirrels, porcupine, raccoon, and white-tailed deer.

Habitat for wetland wildlife consists of open, marshy or swampy shallow water areas, bogs, or flood plains that support water-tolerant plants. The wildlife attracted to this habitat include ducks, geese, herons, bitterns, rails, kingfishers, muskrat, otter, mink, and beaver.

# **Engineering**

This section provides information for planning land uses related to urban development and to water management. Soils are rated for various uses, and the most limiting features are identified. Ratings are given for building site development, construction materials, and water management. The ratings are based on observed performance of the soils and on the data in the tables described under the heading "Soil Properties."

Information in this section is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design

criteria were not considered in preparing the information in this section. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Soil properties, site features, and observed performance were considered in determining the ratings in this section. During the fieldwork for this soil survey, determinations were made about particle-size distribution, liquid limit, plasticity index, soil reaction, depth to bedrock, hardness of bedrock within 5 to 7 feet of the surface, soil wetness, depth to a zone in which the soil moisture status is wet, ponding, slope, likelihood of flooding, natural soil structure aggregation, and soil density. Data were collected about kinds of clay minerals, mineralogy of the sand and silt fractions, and the kinds of adsorbed cations. Estimates were made for erodibility, permeability, corrosivity, linear extensibility, available water capacity, and other behavioral characteristics affecting engineering uses.

This information can be used to evaluate the potential of areas for residential, commercial, industrial, and recreational uses; make preliminary estimates of construction conditions; evaluate alternative routes for roads, streets, highways, pipelines, and underground cables; plan detailed onsite investigations of soils and geology; locate potential sources of gravel, sand, earthfill, and topsoil; plan drainage systems, irrigation systems, ponds, terraces, and other structures for soil and water conservation; and predict performance of proposed small structures and pavements by comparing the performance of existing similar structures on the same or similar soils.

The information in the tables, along with the soil maps, the soil descriptions, and other data provided in this survey, can be used to make additional interpretations.

Some of the terms used in this soil survey have a special meaning in soil science and are defined in the Glossary.

## **Building Site Development**

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. Tables 20a and 20b show the degree and kind of soil limitations that affect dwellings with and without basements, small commercial buildings, local roads and streets, shallow excavations, and lawns and landscaping.

The ratings in the tables are both verbal and

numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development.

Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected.

Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected.

Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a zone in which the soil moisture status is wet, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a zone in which the soil moisture status is wet, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on

undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a zone in which the soil moisture status is wet, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification). The properties that affect the ease and amount of excavation include flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a zone in which the soil moisture status is wet, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a zone in which the soil moisture status is wet, and ponding.

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to a zone in which the soil moisture status is wet, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to a zone in which the soil moisture status is wet, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

Lawns and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a zone in which the soil moisture status is wet; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer.

#### **Construction Materials**

Tables 21a and 21b give information about the soils as potential sources of gravel, sand, reclamation material, roadfill, and topsoil. Normal compaction, minor processing, and other standard construction practices are assumed.

Sand and gravel are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. In table 21a, only the likelihood of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material. The properties used to evaluate the soil as a source of sand or gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the bottom layer of the soil contains sand or gravel, the soil is considered a likely source regardless of thickness. The assumption is that the sand or gravel layer below the depth of observation exceeds the minimum thickness.

The soils are rated *good, fair,* or *poor* as potential sources of sand and gravel. A rating of good or fair means that the source material is likely to be in or below the soil. The bottom layer and the thickest layer of the soils are assigned numerical ratings. These ratings indicate the likelihood that the layer is a source of sand or gravel. The number 0.00 indicates that the layer is a poor source. The number 1.00 indicates that the layer is a good source. A number between 0.00 and 1.00 indicates the degree to which the layer is a likely source.

The soils are rated *good, fair,* or *poor* as potential sources of reclamation material, roadfill, and topsoil. The features that limit the soils as sources of these materials are specified in the tables. The numerical ratings given after the specified features indicate the degree to which the features limit the soils as sources

of reclamation material, roadfill, or topsoil. The lower the number, the greater the limitation.

Reclamation material is used in areas that have been drastically disturbed by surface mining or similar activities. When these areas are reclaimed, layers of soil material or unconsolidated geological material, or both, are replaced in a vertical sequence. The reconstructed soil favors plant growth. The ratings in the table do not apply to quarries and other mined areas that require an offsite source of reconstruction material. The ratings are based on the soil properties that affect erosion and stability of the surface and the productive potential of the reconstructed soil. These properties include the content of sodium, salts, and calcium carbonate; reaction; available water capacity; erodibility; texture; content of rock fragments; and content of organic matter and other features that affect fertility.

Roadfill is soil material that is excavated in one place and used in road embankments in another place. In table 21b, the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments.

The ratings are for the whole soil, from the surface to a depth of about 5 feet. It is assumed that soil layers will be mixed when the soil material is excavated and spread.

The ratings are based on the amount of suitable material and on soil properties that affect the ease of excavation and the performance of the material after it is in place. The thickness of the suitable material is a major consideration. The ease of excavation is affected by large stones, depth to a zone in which the soil moisture status is wet, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHTO classification of the soil) and linear extensibility (shrink-swell potential).

Topsoil is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area. The ratings are based on the soil properties that affect plant growth; the ease of excavating, loading, and spreading the material; and reclamation of the borrow area. Toxic substances, soil reaction, and the properties that are inferred from soil texture, such as available water capacity and fertility, affect plant growth. The ease of excavating, loading, and spreading is affected by rock fragments, slope, depth to a zone in which the soil moisture status is wet, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope,

depth to a zone in which the soil moisture status is wet, rock fragments, depth to bedrock or a cemented pan, and toxic material.

The surface layer of most soils is generally preferred for topsoil because of its organic matter content. Organic matter greatly increases the absorption and retention of moisture and nutrients for plant growth.

## **Water Management**

Table 22 gives information on the soil properties and site features that affect water management. The degree and kind of soil limitations are given for pond reservoir areas; embankments, dikes, and levees; and aquifer-fed excavated ponds. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses.

Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected.

Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected.

Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Pond reservoir areas hold water behind a dam or

embankment. Soils best suited to this use have low seepage potential in the upper 60 inches. The seepage potential is determined by the permeability of the soil and the depth to fractured bedrock or other permeable material. Excessive slope can affect the storage capacity of the reservoir area.

Embankments, dikes, and levees are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. Embankments that have zoned construction (core and shell) are not considered. In this table, the soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of about 5 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the ability of the natural soil to support an embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A seasonal zone in which the soil moisture status is wet affects the amount of usable material. It also affects trafficability.

Aquifer-fed excavated ponds are pits or dugouts that extend to a ground-water aquifer or to a depth below a permanent zone in which the soil moisture status is wet. Excluded are ponds that are fed only by surface runoff and embankment ponds that impound water 3 feet or more above the original surface. Excavated ponds are affected by depth to a permanent zone in which the soil moisture status is wet, permeability of the aquifer, and quality of the water as inferred from the salinity of the soil. Depth to bedrock and the content of large stones affect the ease of excavation.

Table 3a.--Temperature and Precipitation
(Recorded in the period 1961-90 at Oklee, Minnesota)

	   Temperature						   Precipitation				
	!   	   	   	2 years		   	   		s in 10	   	   
Month		Average daily	Average	Maximum	   Minimum	Average number of		Less	   More	Average number of	
	maximum	minimum	į		temperature		į	than	than	days with	•
	 	 	 	higher than	lower	degree days*			 	0.10 inch or more	 
	°F	l ° <sub>F</sub>	°F	O <sub>F</sub>	OF	Units	In	In	l In	or more	l In
January	   13.0	   -8.4	   2.3	   39	   -37	   0	   0.65	0.23	   1.05	   2	   7.9
February	   21.5	  9	10.3	45	   -35	   0	.42	.14	   .67	   1	   5.2
March	   34.3	   13.3	   23.8	   59	   -23	   8 	   .94	   .47	   1.48	   2	   7.2
April	   53.0 	   29.7 	   41.3	   80 	   2 	   136 	   1.70	.65	   2.69	   4 	   2.5 
May	   67.8 	   41.7 	   54.8 	   88 	   22 	   441 	   2.70	1.27	   3.93 	   5 	   .1 
June	   75.6 	   50.7 	63.2	   91 	   34 	   682 	3.70	1.94	   5.25 	   6 	.0 
July	   81.3 	55.1	68.2	95	   39 	875	3.60	1.90	5.08	   6 	.0 I
August	79.8 	52.8	66.3 	96 	34 	794 	3.29	1.84	4.58	5   5	.0
September	68.3	42.8	55.5	90 	23 	462	2.82	1.11	4.26	5   5	.0
October	54.8	32.1	43.5	80 	   12 	175	1.83	.54	2.88	з	   1.1 
November	34.5	   16.7 	25.6	63	-16 	17 	.67 	.25	1.06	2   2	5.3 
December	19.0 	i .o	9.5	46	-33 	0   0	.72   .72	.47	1.00	3 	   8.1 
Yearly:	i I	i I	i I		 	   	i I	   	i I	   	 
Average	50.2	27.1	38.7		 	   	i	 	i	 	i I
Extreme	101 	   -43 	i	98 	-43 	   	i	 	i	 	i I
Total	j I	i I	i I	i	 	3,591	23.04	13.40	27.98	   44 	37.4

<sup>\*</sup> A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (40 degrees F).

Table 3b.--Temperature and Precipitation (Recorded in the period 1971-2000 at Red Lake Falls, Minnesota)

	   Te	emperatu	re		1	Precipi	ation	
	   			   	30% cha   hav:	ance of	 	   
Month		Average daily minimum	İ	İ	Less	More than	Average number of days with 0.10 inch	snowfall
	   ° <sub>F</sub>	°F	°F	   In	   In	In	or more	   In
January	   14.5	-5.6	4.4	   0.66	0.41	0.80	1	   11.1
February	   21.5	1.5	11.5	.54	.28	.67	1	   8.1
March	   35.1	16.3	25.7	   .93	.45	1.13	2	   8.1
April	   54.4	31.2	42.8	   1.36	   .61	1.69	3	2.2
May	   69.6	43.8	56.7	2.50	1.44	3.04	5	.1
June	   77.1	52.5	64.8	   3.77	2.41	4.55	6	.0
July	81.3	56.8	69.1	   3.48	2.20	4.20	6	.0
August	   80.0	54.5	67.3	   3.59	   2.50	4.26	7	   .0
September	   69.0	44.7	56.8	   2.60	1.32	3.17	4	.0
October	   55.3	33.4	44.3	   1.86	   .75	2.25	4	   .9
November	   33.9	17.7	25.8	1.08	.45	1.33	3	   9.6
December	   19.5	1.6	10.5	   .49	.30	.60	1	   8.6
Yearly:	   			   	   			   
Average	   50.9	29.0	40.0	 	 			 
Total	   			   22.86 	   19.01 	24.37	43 	   48.6 

Table 4.--Freeze Dates in Spring and Fall
(Recorded in the period 1961-90 at Oklee and Red Lake Falls,
Minnesota)

	   Temperature 					
Probability	24 <sup>O</sup> F or lower	   28 <sup>O</sup> F   or lower	   32 <sup>O</sup> F   or lower			
OKLEE:		 	 			
Last freezing temperature in spring:		     				
1 year in 10   later than	May 11	     May 19 	     June 3 			
2 years in 10   later than	May 5	     May 14 	     May 29			
5 years in 10   later than	Apr. 22	     May 5	     May 18			
First freezing temperature in fall:		       	       			
1 year in 10   earlier than	Sept. 21	   Sept. 10 	     Sept. 5			
2 years in 10   earlier than	Sept. 25	     Sept. 15 	     Sept. 10			
5 years in 10   earlier than	Oct. 4	     Sept. 23	     Sept. 18			
RED LAKE FALLS:		   	   			
Last freezing temperature in spring:		     	     			
1 year in 10   later than	May 7	     May 21 	     May 28			
2 years in 10   later than	May 1	     May 15 	     May 24			
5 years in 10   later than	Apr. 20	     May 4	     May 15			
First freezing   temperature   in fall:		       	       			
1 year in 10   earlier than	Sept. 25	   Sept. 13 	     Sept. 5 			
2 years in 10   earlier than	Sept. 30	     Sept. 19 	     Sept. 11 			
5 years in 10 earlier than	Oct. 10	     Sept. 29 	     Sept. 21 			

Table 5.--Growing Season

(Recorded in the period 1961-90 at Oklee and Red Lake Falls, Minnesota)

	-	Daily minimum temperature during growing season				
Probability	Higher than 24 <sup>O</sup> F	   Higher   than   28 <sup>O</sup> F	   Higher   than   32 <sup>O</sup> F			
ļ	Days	Days	Days			
OKLEE:		 	   			
9 years in 10	140	   125	   100			
8 years in 10	148	131	   108			
5 years in 10	164	140	   123			
2 years in 10	180	150	   138			
1 year in 10	189	   155	   146			
RED LAKE   FALLS:		   	   			
9 years in 10	144	124	   104			
8 years in 10	153	132	   112			
5 years in 10	169	   146	   127			
2 years in 10	185	   161	   143			
1 year in 10	194	   169	   151			

Table 6.--Cropland Management Considerations

(See text for a description of the considerations listed in this table)

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
  B109A:		
Bowstring	45	   Flooding   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Fluvaquents      	40	Flooding   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Hapludalfs              	5	Slope   Limited content of organic matter   Potential for ground-water contamination   Potential for surface-water contamination   Water erosion   Wet soil moisture status   Wind erosion
Seelyeville            	5	   Flooding   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   Water	5	   Not applicable
B200A:   Garnes    	70	Excessive permeability Potential for ground-water contamination Wet soil moisture status Wind erosion
   Chilgren            		Excessive permeability Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Eckvoll      	5	   Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Garnes, very stony    		Excessive permeability Potential for ground-water contamination Potential for surface-water contamination Surface stones Water erosion Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	
component name		L
B200A:   Grygla	4	Excessive permeability
Grygra		Ponding
i		Potential for ground-water contamination
İ		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
   Pelan	3	   Excessive permeability
		Potential for ground-water contamination
İ		Wet soil moisture status
		Wind erosion
B201A:		] 
Chilgren	75	   Excessive permeability
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
i		Wild Clopion
Garnes	9	Excessive permeability
ļ		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Grygla	5	Excessive permeability
İ		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
i		Wind erosion
i		
Grygla, depressional		Excessive permeability
		Ponding   Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wet soil moisture status
		Wind erosion
********	5	   Tick contont of consolin matter
Hamre		High content of organic matter   Ponding
		Potential for ground-water contamination
İ		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
  Pelan	1	   Excessive permeability
		Potential for ground-water contamination
i		Wet soil moisture status
!		Wind erosion
B202A:		 
Cathro	80	   High content of organic matter
i		Ponding
I		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
i		
'		•

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		l
B202A:		 
Hamre		High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
   Chilgren        		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Northwood		Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
		Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Grygla		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Seelyeville        		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
B203A:		
Northwood            		Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Hamre              		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
B203A:		 
Grygla	7	Excessive permeability
İ		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wind erosion
İ		
Berner		Excessive permeability
		High content of organic matter
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
Chilgren	3	   Excessive permeability
5		Ponding
İ		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
B204A:		
Roliss	75	Lime content
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Grygla	8	   Excessive permeability
i		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wind erosion
İ		İ
Chilgren	5	Excessive permeability
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
Garnes	5	   Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Roliss, depressional	5	   Ponding
		Potential for ground-water contamination
<u> </u>		Potential for surface-water contamination
		Wet soil moisture status
Hamre	2	   High content of organic matter
i		Ponding
<u> </u>		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wind erosion
i		

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		<u> </u>
B205A:		 
Berner		Excessive permeability High content of organic matter Ponding Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Northwood		Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Grygla		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Cathro		High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Hamre		High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Seelyeville		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
B206A:		
Hamre		High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Chilgren		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
B206A: Northwood	l l 5	   Excessive permeability
NOI CHWOOd	) 5 	Excessive permeability   High content of organic matter
	] 	Ponding
	] 	Potential for ground-water contamination
		Potential for surface-water contamination
i		Wet soil moisture status
İ	j	Wind erosion
	[	
Cathro	3	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination Wet soil moisture status
		Wet soil moisture status   Wind erosion
	] 	
Grygla	2	Excessive permeability
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Roliss	   2	Lime content
	ĺ	Ponding
j	ĺ	Potential for ground-water contamination
	[	Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
B207A:	 	 
Pelan	70	Excessive permeability
	[	Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Chilgren	   10	   Excessive permeability
		Ponding
j	İ	Potential for ground-water contamination
		Potential for surface-water contamination
	[	Wet soil moisture status
		Wind erosion
Garnes	   10	   Excessive permeability
Gaines	] 10	Potential for ground-water contamination
	] 	Wet soil moisture status
		Wind erosion
i	į	
Eckvoll	5	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Grygla	l 5	   Excessive permeability
		Ponding
İ	l i	Potential for ground-water contamination
İ	į į	Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
I		

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and component name	map unit	considerations
component name		
B208A:		
Grygla		Excessive permeability
		Ponding
		Potential for ground-water contamination
	i	Potential for surface-water contaminatio   Wet soil moisture status
		Wet soil moisture status   Wind erosion
Chilgren	10	Excessive permeability
	j.	Ponding
		Potential for ground-water contamination
		Potential for surface-water contaminatio
		Wet soil moisture status   Wind erosion
		Wind erosion
Eckvoll	5	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Grygla, depressional	5	   Excessive permeability
Giygia, depressional		Ponding
i		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Northwood	5	Excessive permeability
101 CIIWOOd		Excessive permeability   High content of organic matter
		Ponding
j		Potential for ground-water contamination
İ		Potential for surface-water contaminatio
		Wet soil moisture status
		Wind erosion
B209A:		[ 
Seelyeville	90	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contaminatio
		Wet soil moisture status   Wind erosion
		Willia elosion
Cathro	3	High content of organic matter
İ		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
	i	
		Wind erosion 
Dora	3	wind erosion     High content of organic matter
Dora		
Dora		   High content of organic matter   Ponding   Potential for ground-water contamination
Dora		   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination
Dora		   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contaminatio   Wet soil moisture status
Dora		   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contaminatio
Dora		   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
	3	   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contaminatio   Wet soil moisture status
	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contaminatio   Wet soil moisture status   Wind erosion     Excessive permeability
	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion   Excessive permeability   High content of organic matter   Ponding
	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contaminatio   Wet soil moisture status   Wind erosion   Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination
	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion   Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination

Table 6.--Cropland Management Considerations--Continued

Management of	D-1 -5	
Map symbol and	Pct. of	:
component name	map unit	Considerations
B209A:		
Berner		Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
70103		
B210A: Eckvoll	70	Excessive permeability Potential for ground-water contamination Wet soil moisture status Wind erosion
Chilgren	12	Excessive permeability Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Grygla	8	Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Garnes	7	Excessive permeability Potential for ground-water contamination Wet soil moisture status Wind erosion
Pelan		   Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
B211A: Berner, ponded	45	Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Cathro, ponded		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Chilgren		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
B211A:		
Grygla	2	Excessive permeability
	 	Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
	İ	İ
Hamre	2	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
	] 	Wet soil moisture status   Wind erosion
		Wind elosion
Northwood	l   2	Excessive permeability
		High content of organic matter
	ĺ	Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
		wind erosion
Seelyeville, ponded	l l 2	   High content of organic matter
		Ponding
	İ	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
I1A: Augsburg	l l 75	   Lime content
Augsburg		Ponding
		Potential for ground-water contamination
	İ	Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Description	   10	Lime content
Borup	1 10	Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
	İ	Wet soil moisture status
		Wind erosion
Foxlake	5	Lime content
	] 	Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
	l	
Augsburg, depressional		Lime content
		Ponding
		Potential for ground-water contamination
	 	Potential for surface-water contamination   Wet soil moisture status
		Wet soil moisture status   Wind erosion
Wheatville	3	Lime content
	l	Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
	I	I

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
IIA:		 
Glyndon	2	   Lime content   Potential for ground-water contamination
		Wet soil moisture status   Wind erosion 
Espelie      		Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Hattie         		   Lime content   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
I3A:		
Berner          	80	Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Northwood	7	Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
		Excessive permeability Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Hamre	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Strathcona		Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Seelyeville        		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	
and	map unit	considerations
component name		
T43 -		]
I4A:     Berner	30	   Excessive permeability
Berner	30	High content of organic matter
i		Ponding
i		Potential for ground-water contamination
I		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Rosewood, depressional	30	Excessive permeability
Rosewood, depressional		Lime content
i		Ponding
		Potential for ground-water contamination
i		Potential for surface-water contamination
		Wet soil moisture status
ļ.		Wind erosion
Strathgana da	20	
Strathcona, depressional		Excessive permeability   Lime content
		Ponding
i		Potential for ground-water contamination
		Potential for surface-water contamination
i		Wet soil moisture status
İ		Wind erosion
Paramad	4	   Busessine ====================================
Rosewood		Excessive permeability   Lime content
		Limited available water capacity
i		Ponding
i		Potential for ground-water contamination
		Potential for surface-water contamination
I		Wet soil moisture status
!		Wind erosion
Deerwood	2	   Excessive permeability
3002000	_	High content of organic matter
i		Ponding
i		Potential for ground-water contamination
I		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
   Mavie	2	   Excessive permeability
	_	Lime content
i		Ponding
i		Potential for ground-water contamination
İ		Potential for surface-water contamination
I		Wet soil moisture status
!		Wind erosion
   Strathcona	2	Excessive permeability
		Lime content
		Ponding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
İ		Wet soil moisture status
I		Wind erosion
I		

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
I5A:		 
Borup	75	   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
i		
Glyndon		Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Rosewood	8	Excessive permeability Lime content Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Augsburg	5	Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Augsburg, depressional	3	Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I7A:		
Bowstring	45	Flooding   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Fluvaquents	45	Flooding   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Hapludolls	5	   Slope   Potential for surface-water contamination   Water erosion
Water	5	   Not applicable
I8A: Cathro		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Pct. of	Cropland management
map unit	considerations
8	   High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
j.	Wind erosion
-	Excessive permeability
	High content of organic matter   Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
	Wind erosion
	Lime content
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination   Wet soil moisture status
	Wind erosion
2	Excessive permeability
	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status   Wind erosion
	WING GLOSION
2	Excessive permeability
	Ponding
j.	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
	Wind erosion
2	   High content of organic matter
	Ponding
	Potential for ground-water contamination
İ	Potential for surface-water contamination
	Wet soil moisture status
	Wind erosion
	wind erosion
	Wind erosion   
80	
	Ponding
	Ponding Potential poor tilth and compaction Potential for ground-water contamination
	Ponding Potential poor tilth and compaction Potential for ground-water contamination
	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Ponding
	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Ponding Potential poor tilth and compaction
	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Ponding Potential poor tilth and compaction Potential for ground-water contamination
	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination
	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Ponding Potential poor tilth and compaction Potential for ground-water contamination
5	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination
5	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status  Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
5	Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status  Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status  Lime content
	map unit  8  2  2

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	:
and	map unit	considerations
component name		1
Clearwater, depressional		Ponding   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Espelie		Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Foxlake        		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hattie		Lime content   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Huot        		   Excessive permeability   Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
I11A:		
Deerwood		Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Rosewood	6	Excessive permeability   Lime content   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Markey            		Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
		<u> </u>
I11A:		
Strathcona	2	Excessive permeability
i		Lime content
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Syrene	2	Excessive permeability
		Lime content
i		Limited available water capacity
i		Ponding
i		Potential for ground-water contamination
		Potential for surface-water contamination
i		Wet soil moisture status
i		Wind erosion
İ		
Venlo	2	Excessive permeability
		Limited available water capacity
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
I12A:		
Eckvoll	70	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Kratka	8	   Excessive permeability
KI acka	_	Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
i		Wind erosion
İ		
Smiley	7	Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Linveldt	5	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Poince	5	   Batantial for many outer contamination
Reiner		Potential for ground-water contamination   Wet soil moisture status
		Wind erosion
Foldahl	2	   Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
i		Wind erosion
j		
Pelan	2	Excessive permeability
j		Potential for ground-water contamination
i		Wet soil moisture status
i		Wind erosion
j		
'		

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
I12A:		 
Poppleton		Excessive permeability   Limited available water capacity   Limited content of organic matter   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
I13A:		
Espelie      	75	Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Foxlake		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hilaire	7	Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Clearwater, depressional	5	Ponding   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Thiefriver		Excessive permeability   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I15A:		[ 
Flaming	70	Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Garborg        		   Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Hamar		Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	:
and	map unit	considerations
component name		<u> </u>
I15A:		! 
Ulen        		Excessive permeability Lime content Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Poppleton		Excessive permeability   Limited available water capacity   Limited content of organic matter   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Sandberg		Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Foldahl		   Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Radium		Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wind erosion
I16F:		 
Fluvaquents      		Flooding   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Hapludolls		Slope   Potential for surface-water contamination   Water erosion
Hapludalfs            		Slope   Limited content of organic matter   Potential for ground-water contamination   Potential for surface-water contamination   Water erosion   Wet soil moisture status   Wind erosion
Fairdale    		Flooding   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Water erosion   Wet soil moisture status   Wind erosion
   Water  	5	   Not applicable 

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and .	map unit	considerations
component name		<u> </u>
   I16F:		 
Bowstring		Flooding   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Rauville		Flooding   Lime content   Ponding   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I17A:	75	     Excessive permeability
		Potential for ground-water contamination Wet soil moisture status Wind erosion
Kratka	10	Excessive permeability Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Roliss		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Flaming		   Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Grimstad	2	   Excessive permeability   Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Linveldt		Excessive permeability Potential for ground-water contamination Wet soil moisture status Wind erosion
Eckvoll		   Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	
component name		
I		
I17A:		
Strathcona	1	Excessive permeability   Lime content
· ·		Ponding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
I		Wet soil moisture status
!		Wind erosion
I18A:		]
Foldahl	75	   Excessive permeability
		Potential for ground-water contamination
j		Wet soil moisture status
ļ.		Wind erosion
Wana bilan	10	
Kratka	10	Excessive permeability   Ponding
· ·		Potential for ground-water contamination
i		Potential for surface-water contamination
j		Wet soil moisture status
		Wind erosion
   Roliss	5	   Lime content
KOIISS	5	Ponding
i		Potential for ground-water contamination
į		Potential for surface-water contamination
İ		Wet soil moisture status
!		Wind erosion
   Flaming	4	   Excessive permeability
	-	Limited available water capacity
i		Potential for ground-water contamination
j		Wet soil moisture status
!		Wind erosion
 	2	   Excessive permeability
	-	Lime content
i		Potential for ground-water contamination
İ		Wet soil moisture status
!		Wind erosion
Linveldt	2	   Excessive permeability
	-	Potential for ground-water contamination
į		Wet soil moisture status
Į.		Wind erosion
   Eckvoll	1	   Evgoggive permeability
ECKVOII	1	Excessive permeability   Potential for ground-water contamination
i		Wet soil moisture status
į		Wind erosion
	_	
Strathcona		Excessive permeability   Lime content
ļ		Donding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
Ī		Wet soil moisture status
ļ		Wind erosion
   I19A:		 
Foxhome	65	Excessive permeability
j		Potential for ground-water contamination
!		Wet soil moisture status
ļ		Wind erosion
l		I

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	:
and	map unit	considerations
component name		<u></u>
   I19A:		 
Kittson		   Potential for ground-water contamination   Wet soil moisture status 
Strandquist         		Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Foldahl		Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Grimstad      		Excessive permeability   Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Roliss        		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Mavie            		Excessive permeability   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I20A:		İ
Foxlake        		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Clearwater		Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
Foxlake, very cobbly		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	
and	map unit	considerations
component name		l 
I20A:		
Augsburg		Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Clearwater, depressional		Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
Espelie	3	Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hilaire	2	Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Reis		Lime content   Potential poor tilth and compaction   Potential for ground-water contamination   Wet soil moisture status
Wheatville	2	   Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
122A:		
Glyndon		Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Borup		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Augsburg		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Ulen		Excessive permeability   Lime content   Limited available water capacity   Potential for ground-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	
component name		
I22A:	3	
Wheatville	3	Lime content   Potential for ground-water contamination
i		Wet soil moisture status
		Wind erosion
İ		İ
Flaming	2	Excessive permeability
		Limited available water capacity
		Potential for ground-water contamination   Wet soil moisture status
i		Wind erosion
i		
I24A:		İ
Grimstad	70	Excessive permeability
		Lime content
		Potential for ground-water contamination   Wet soil moisture status
		Wind erosion
i		
Strathcona	12	Excessive permeability
		Lime content
		Ponding
		Potential for ground-water contamination   Potential for surface-water contamination
		Wet soil moisture status
i		Wind erosion
Foldahl	5	Excessive permeability
		Potential for ground-water contamination   Wet soil moisture status
i		Wind erosion
İ		İ
Hamerly	5	Lime content
		Potential for ground-water contamination
		Wet soil moisture status   Wind erosion
i		
Foxhome	2	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Karlsruhe	2	Excessive permeability
		Limited available water capacity
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Mavie	2	   Excessive permeability
-	_	Lime content
		Ponding
<u> </u>		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
<u> </u>		Wet soil moisture status   Wind erosion
i		
Ulen	2	Excessive permeability
		Lime content
!		Limited available water capacity
		Potential for ground-water contamination   Wet soil moisture status
i		Wind erosion
i		İ

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		l
I25A:		
Hamar          		Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
   Garborg          		Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Rosewood            		Excessive permeability Lime content Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Venlo              		Excessive permeability Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
	2	Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Hangaard    		Excessive permeability Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
   Kratka            		Excessive permeability Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
I26A:   Hamerly  		  -   Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
   Vallers            		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
126A:		
Foxhome	3	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status   Wind erosion
	 	wind erosion
Grimstad	l l 3	   Excessive permeability
GI IMB cuu	ı ğ	Lime content
		Potential for ground-water contamination
i		Wet soil moisture status
	İ	Wind erosion
İ	ĺ	
Hamerly, very cobbly	3	Lime content
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Glassib and		 
Strathcona	] 3 I	Excessive permeability   Lime content
· ·		Donding
		Potential for ground-water contamination
		Potential for surface-water contamination
	İ	Wet soil moisture status
	İ	Wind erosion
Roliss, depressional	1	Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
I27A:	 	 
Hamre	l 80	High content of organic matter
		Ponding
	İ	Potential for ground-water contamination
İ	ĺ	Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Wastings of	_	
Northwood	5	Excessive permeability
	] 	High content of organic matter   Ponding
	<u> </u> 	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
İ		
Roliss	5	Lime content
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
	 	Wet soil moisture status
	 	Wind erosion
Smiley	l I 5	   Ponding
	ĺ	Potential for ground-water contamination
i	İ	Potential for surface-water contamination
i	İ	Wet soil moisture status
i		
Cathro	3	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
	] 	Wind erosion
l l	ı	I

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	:
and	map unit	considerations
component name		<u> </u>
I27A:		 
Kratka		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hilaire		Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Espelie        		Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Huot	5	Excessive permeability   Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Flaming		Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Foxlake        		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   Wheatville      		   Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Thiefriver            		Excessive permeability   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Wyandotte            		Excessive permeability   Lime content   Ponding   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
I34A:		] 
Huot	75	   Excessive permeability
		Lime content
i		Potential for ground-water contamination
		Wet soil moisture status
İ		Wind erosion
Thiefriver		Excessive permeability
		Lime content
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
j		Wind erosion
į		İ
Hilaire	5	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Flaming	3	   Excessive permeability
-		Limited available water capacity
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Foxlake		Lime content
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Ulen		Excessive permeability
		Lime content
		Limited available water capacity   Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
İ		
36A:		
Kittson	70	Potential for ground-water contamination
		Wet soil moisture status
Roliss	12	   Lime content
NOTES		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
	_	
Hamerly		Lime content
		Potential for ground-water contamination Wet soil moisture status
· ·		Wet soil moisture status   Wind erosion
Kratka	5	Excessive permeability
Kratka		Ponding
Kratka		1
Kratka		Potential for ground-water contamination
Kratka		Potential for ground-water contamination Potential for surface-water contamination
Kratka		•

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	:
and	map unit	considerations
component name		<u> </u>
   I36A:		 
Grimstad		Excessive permeability   Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Strandquist                		Excessive permeability   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Foxhome		Excessive permeability Potential for ground-water contamination Wet soil moisture status Wind erosion
I38A:     Kratka          		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
  Smiley      	7	   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Foldahl      		   Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Kratka, very cobbly		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Strathcona              		Excessive permeability   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Kratka, depressional            		Excessive permeability Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	:
component name		<u> </u>
		[
138A:		
Strandquist	3	Excessive permeability   Lime content
		Ponding
i		Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
I		Wind erosion
	_	
Linveldt		Excessive permeability
		Potential for ground-water contamination   Wet soil moisture status
i		Wind erosion
i		
I39A:		ĺ
Linveldt	65	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status   Wind erosion
		wind erosion
Kratka	14	Excessive permeability
i		Ponding
I		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Reiner	10	   Potential for ground-water contamination
		Wet soil moisture status
İ		Wind erosion
	_	
Smiley	5	Ponding
		Potential for ground-water contamination   Potential for surface-water contamination
		Wet soil moisture status
i		İ
Eckvoll	3	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status   Wind erosion
		wind erosion
Foldahl	2	Excessive permeability
i		Potential for ground-water contamination
I		Wet soil moisture status
		Wind erosion
   Pelan	1	Excessive permeability
retaii		Potential for ground-water contamination
		Wet soil moisture status
i		Wind erosion
İ		I
I41A:		
Markey	80	Excessive permeability
		High content of organic matter   Ponding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wet soil moisture status
I		Wind erosion
I		

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		<u> </u>
I41A:		
Deerwood  	12	Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination
 		Potential for surface-water contamination Wet soil moisture status Wind erosion
Berner            		Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hamar        		Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Seelyeville	2	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Syrene	2	Excessive permeability Lime content Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
I42A:		
Markey, ponded          	85	Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Markey          		Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Deerwood		Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		<u> </u>
   I42A:		 
Seelyeville, ponded	4	High content of organic matter
İ		Ponding
I		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
   Hamar	1	   Limited available water capacity
		Ponding
İ		Potential for ground-water contamination
ļ		Potential for surface-water contamination
ļ		Wet soil moisture status
		Wind erosion
Hangaard	1	   Excessive permeability
i		Limited available water capacity
I		Ponding
ļ		Potential for ground-water contamination
ļ		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
i		
143A:		İ
Mavie		Excessive permeability
ļ		Lime content
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
i		Wet soil moisture status
İ		Wind erosion
77-11	10	L. Talana and and
Vallers		Lime content   Ponding
		Potential for ground-water contamination
į		Potential for surface-water contamination
I		Wet soil moisture status
ļ		Wind erosion
Strandquist	7	   Excessive permeability
		Lime content
i		Ponding
İ		Potential for ground-water contamination
ļ		Potential for surface-water contamination
l		Wet soil moisture status
		Wind erosion
Strathcona	5	Excessive permeability
İ		Lime content
ļ		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wet soil moisture status
i		İ
Strathcona, depressional		Excessive permeability
ļ		Lime content
		Ponding   Potential for ground-water gentamination
ļ		Potential for ground-water contamination   Potential for surface-water contamination
ļ		Wet soil moisture status
i		Wind erosion
		•

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	_
and	map unit	considerations
component name		<u> </u>
T423.		 
I43A:	2	   Errangaire normanhility
Foxhome		Excessive permeability   Potential for ground-water contamination
ļ		Wet soil moisture status
ļ		Wet soil moisture status   Wind erosion
<u> </u>		Wind elosion
Karlsruhe	2	Excessive permeability
la ited available water capacity		
i		Potential for ground-water contamination
i		Wet soil moisture status
i		Wind erosion
i		
Grimstad	1	Excessive permeability
j		Lime content
į		Potential for ground-water contamination
İ		Wet soil moisture status
I		Wind erosion
I		
I44A:	,	
Newfolden	75	Potential for ground-water contamination
ļ		Potential for surface-water contamination
		Wet soil moisture status
Smiley		Ponding
!		Potential for ground-water contamination
!		Potential for surface-water contamination
		Wet soil moisture status
   Boash	8	   Danding
boasii	-	Ponding   Potential poor tilth and compaction
		Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wet soil moisture status
i		
Linveldt	4	Excessive permeability
i		Potential for ground-water contamination
j		Wet soil moisture status
İ		Wind erosion
I		
Hapludolls	1	Slope
I	,	Potential for surface-water contamination
ļ		Water erosion
I45A:		
Northwood	75	Excessive permeability
!		High content of organic matter
!		Ponding
!		Potential for ground-water contamination
ļ		Potential for surface-water contamination
		Wet soil moisture status
i		Wind erosion
Į.		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.0	
		High content of organic matter
		Ponding
 		Ponding Potential for ground-water contamination
 		Ponding Potential for ground-water contamination Potential for surface-water contamination
 		Ponding Potential for ground-water contamination

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
I45A:	_	
Berner	5	Excessive permeability
		High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
		wind erosion
Kratka	5	   Errangaire normanhility
KIACKA		Excessive permeability   Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
		Willia Glosion
Strandquist	3	Excessive permeability
20141144120	i	Lime content
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
i		Wet soil moisture status
i		Wind erosion
Roliss	2	Lime content
		Ponding
į		Potential for ground-water contamination
į		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
I46A:		
Pits	85	Not applicable
Udipsamments	10	Slope
		Excessive permeability
		Limited available water capacity
		Limited content of organic matter
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wind erosion
Radium	2	   Excessive permeability
Radium		Excessive permeability   Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
		Wild Globion
Maddock	1	   Limited available water capacity
	_	Potential for ground-water contamination
		Wind erosion
Marquette	1	Excessive permeability
- '		Limited available water capacity
i		Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wind erosion
j		
Sandberg	1	Excessive permeability
j		Limited available water capacity
j		Potential for ground-water contamination
İ		Wind erosion
İ		

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
   I47A:		
Poppleton	75	   Excessive permeability
		Limited available water capacity
i		Limited content of organic matter
i		Potential for ground-water contamination
i		Wet soil moisture status
İ		Wind erosion
Flaming		Excessive permeability
		Limited available water capacity
		Potential for ground-water contamination   Wet soil moisture status
		Wet soil moisture status
Garborg	5	Excessive permeability
		Limited available water capacity
I		Potential for ground-water contamination
I		Wet soil moisture status
		Wind erosion
Warran .	3	 
Hamar		Limited available water capacity
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
i		
Radium	2	Excessive permeability
I		Limited available water capacity
I		Potential for ground-water contamination
		Wind erosion
771 000	2	 
Ulen		Excessive permeability   Lime content
		Limited available water capacity
i		Potential for ground-water contamination
		Wet soil moisture status
i		Wind erosion
ļ.		
Maddock	1	Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
I48A:		 
Radium	75	Excessive permeability
i		Limited available water capacity
		Potential for ground-water contamination
I		Wind erosion
Sandberg	7	Excessive permeability
		Limited available water capacity
l l		Potential for ground-water contamination
i		Wind erosion
Ovlen	5	   Excessive permeability
Oylen		   Excessive permeability   Limited available water capacity
Oylen		   Excessive permeability   Limited available water capacity   Potential for ground-water contamination
Oylen		Limited available water capacity
Oylen		Limited available water capacity   Potential for ground-water contamination
Oylen	4	Limited available water capacity   Potential for ground-water contamination   Wind erosion     Excessive permeability
	4	Limited available water capacity   Potential for ground-water contamination   Wind erosion     Excessive permeability   Limited available water capacity
	4	Limited available water capacity Potential for ground-water contamination Wind erosion Excessive permeability Limited available water capacity Potential for ground-water contamination
	4	Limited available water capacity   Potential for ground-water contamination   Wind erosion     Excessive permeability   Limited available water capacity

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		<u> </u>
   I48A:		 
Garborg		Excessive permeability Limited available water capacity
   		Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Hangaard              		Excessive permeability   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hamar  		Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Poppleton          		Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Wet soil moisture status Wind erosion
   I50A:		 
Reiner	70	Potential for ground-water contamination Wet soil moisture status Wind erosion
Smiley      	12	   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Reiner, very cobbly	7	   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Linveldt	5	Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Eckvoll      		Excessive permeability Potential for ground-water contamination Wet soil moisture status Wind erosion
		Excessive permeability Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	
and	map unit	considerations
component name		l
I51A:		 
Reiner		Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
  Smiley      	9	Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Reiner fine sandy loam	8	   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Linveldt		Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Kratka		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Eckvoll		Excessive permeability Potential for ground-water contamination Wet soil moisture status Wind erosion
Reiner, very cobbly	3	   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
I52A:		 
Reis		Lime content   Potential poor tilth and compaction   Potential for ground-water contamination   Wet soil moisture status
Clearwater	30	Ponding   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Clearwater, very cobbly		Ponding Potential poor tilth and compaction Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
Clearwater, depressional		   Ponding   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
I52A:	3	
Espelie	3	Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
i		
Hattie	3	Lime content
		Potential poor tilth and compaction
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Wyandotte	1	   Excessive permeability
wyandocce	<u> </u>	Lime content
		Ponding
i		Potential poor tilth and compaction
		Potential for ground-water contamination
İ		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
I53A:		] 
Roliss	75	   Lime content
1101122	, , ,	Ponding
i		Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
The state of		
Kratka	8	Excessive permeability   Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
	_	
Roliss, very cobbly	7	Lime content
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Kittson	5	Potential for ground-water contamination
		Wet soil moisture status
Roliss, depressional	3	   Ponding
ROIISS, deplessional	]	Potential for ground-water contamination
		Potential for surface-water contamination
i		Wet soil moisture status
j		
Smiley	2	Ponding
1		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
I54A:		 
Roliss, depressional	80	   Ponding
MOTION, depressional	55	Potential for ground-water contamination
i		Potential for surface-water contamination
j		Wet soil moisture status
j		

Table 6.--Cropland Management Considerations--Continued

Man gymbol	Pat of	Cropland management
Map symbol and	Pct. of map unit	
component name	map and	
I54A:		
Roliss	12	Lime content
		Ponding
		Potential for ground-water contamination   Potential for surface-water contamination
		Wet soil moisture status
İ		Wind erosion
Hamre		High content of organic matter   Ponding
		Potential for ground-water contamination
i		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
Kratka	3	   Excessive permeability
nruchu		Ponding
İ		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
		Wild elosion
I55A:		İ
Rosewood	75	Excessive permeability
		Lime content   Limited available water capacity
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Ulen	10	Excessive permeability
		Lime content
		Limited available water capacity
		Potential for ground-water contamination   Wet soil moisture status
		Wind erosion
Hamar	6	Limited available water capacity
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
Rosewood, depressional	3	   Excessive permeability
depressional series		Lime content
İ		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination Wet soil moisture status
		Wet soil moisture status   Wind erosion
İ		
Syrene		Excessive permeability
		Lime content   Limited available water capacity
· ·		Limited available water capacity   Ponding
i		Potential for ground-water contamination
İ		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
l l		I

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and .	map unit	considerations
component name		
TEE3 -		]
I55A: Karlsruhe	1	   Excessive permeability
kai isi une	-	Limited available water capacity
		Potential for ground-water contamination
i		Wet soil moisture status
i		Wind erosion
i		
Strathcona	1	Excessive permeability
İ		Lime content
		Ponding
I		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
	_	 
Thiefriver	1	Excessive permeability
		Lime content
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
i		Wet soil moisture status
		Wind erosion
i		
I57B:		
Sandberg	50	Excessive permeability
		Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
De Allem	0.5	 
Radium	25	Excessive permeability
		Limited available water capacity   Potential for ground-water contamination
		Wind erosion
i		
Sioux	8	Excessive permeability
		Limited available water capacity
I		Potential for ground-water contamination
I		Wind erosion
Oylen	7	Excessive permeability
		Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
	5	   Excessive permeability
	~	Limited available water capacity
i		Potential for ground-water contamination
i		Wet soil moisture status
i		Wind erosion
İ		
Garborg	5	Excessive permeability
I		Limited available water capacity
		Potential for ground-water contamination
<u> </u>		Wet soil moisture status
		Wind erosion
T597.		] 
I58A:	90	
Seelyeville		High content of organic matter   Ponding
· ·		Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wet soil moisture status
i		Wind erosion
i		
		:

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
I58A: Cathro		High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Dora		High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Markey		Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Berner		Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
I59A:		
Smiley		Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
Smiley, very cobbly		Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Kratka	9	Excessive permeability Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Roliss		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Reiner		   Potential for ground-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	
component name	<u> </u>	<u> </u>
	l	
I59A: Linveldt	   3   	   Excessive permeability   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Smiley, depressional	   3   	Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Strandquist	1	Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
I60A:	 	I 
Smiley, depressional	   80   	Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Smiley	   10   	Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Hamre	5       	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Kratka	:	Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I61A:	! 	 
Strandquist	İ	Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Mavie	     	Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and component name	map unit	considerations
Component name		<u> </u>
I61A:		
Roliss	7	Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
		Excessive permeability   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Foxhome	4	Excessive permeability Potential for ground-water contamination Wet soil moisture status Wind erosion
Hangaard	3	Excessive permeability Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Northwood	3	Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
I62A:		
Syrene	70	Excessive permeability Lime content Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Rosewood		Excessive permeability   Lime content   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hangaard		Excessive permeability   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		<u> </u>
   I62A:		 
Karlsruhe	4	Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Deerwood		Excessive permeability   High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hamar      		Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Strandquist            		Excessive permeability   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Radium	1	Excessive permeability Limited available water capacity Potential for ground-water contamination Wind erosion
Wyandotte              		Excessive permeability   Lime content   Ponding   Potential poor tilth and compaction   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I63A:		Excessive permeability   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   Espelie        		Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
TC23.		]
I63A:   Foxlake	7	   Lime content
roxiake		Donding
<u> </u>		Potential for ground-water contamination
<u> </u>		Potential for ground-water contamination  Potential for surface-water contamination
· ·		Wet soil moisture status
· ·		Wind erosion
i		
Huot	5	Excessive permeability
į		Lime content
I		Potential for ground-water contamination
I		Wet soil moisture status
I		Wind erosion
I		
Clearwater, depressional		Ponding
ļ.		Potential poor tilth and compaction
!		Potential for ground-water contamination
ļ		Potential for surface-water contamination
ļ		Wet soil moisture status
   Rosewood	3	   Excessive permeability
	-	Lime content
l I		Limited available water capacity
i		Ponding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wet soil moisture status
į		Wind erosion
I		
Ulen		Excessive permeability
!		Lime content
!		Limited available water capacity
ļ		Potential for ground-water contamination
		Wet soil moisture status   Wind erosion
· ·		Willia elosion
Wyandotte	1	Excessive permeability
i		Lime content
j		Ponding
I		Potential poor tilth and compaction
I		Potential for ground-water contamination
I		Potential for surface-water contamination
ļ		Wet soil moisture status
ļ		Wind erosion
   I64A:		 
Ulen	70	   Excessive permeability
i		Lime content
i		Limited available water capacity
i		Potential for ground-water contamination
į		Wet soil moisture status
I		Wind erosion
_ !		
Rosewood		Excessive permeability
!		Lime content
ļ		Limited available water capacity
ļ		Ponding
		Potential for ground-water contamination
ļ		Potential for surface-water contamination Wet soil moisture status
l I		Wet soil moisture status   Wind erosion
l I		   wind Giosion
I		I

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		<u> </u>
I64A:		[ 
Flaming	8	Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Karlsruhe	5	Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Radium	3	Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Strathcona	2	Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Thiefriver	2	Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
I65A:		 
Ulen	70	Excessive permeability Lime content Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Rosewood	10	Excessive permeability   Lime content   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Flaming	6	Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Poppleton	4	Excessive permeability   Limited available water capacity   Limited content of organic matter   Potential for ground-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	
and	map unit	considerations
component name		
I65A:		
Karlsruhe		Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Radium		Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Strathcona		Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Thiefriver		Excessive permeability Lime content Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
I66A:		
Vallers		Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Vallers, very cobbly		   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hamerly	6	Lime content   Potential for ground-water contamination   Wet soil moisture status   Wind erosion
Grimstad		Excessive permeability Lime content Potential for ground-water contamination Wet soil moisture status Wind erosion
Mavie		Excessive permeability   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	
component name		
I66A: Roliss, depressional	3	   Ponding
ROIISS, depressional		Potential for ground-water contamination
İ		Potential for surface-water contamination
		Wet soil moisture status
Strathcona	3	Excessive permeability
Straticona	3	Lime content
İ		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wind erosion
İ		İ
167A:		
Wheatville	70	Lime content   Potential for ground-water contamination
		Wet soil moisture status
İ		Wind erosion
Augsburg	13	Lime content
Augsburg	13	Ponding
j		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
		Wild elosion
Glyndon	8	Lime content
		Potential for ground-water contamination
		Wet soil moisture status   Wind erosion
Foxlake	5	Lime content
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
Hilaire	2	   Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Ulen	2	Excessive permeability
İ		Lime content
		Limited available water capacity
		Potential for ground-water contamination   Wet soil moisture status
j		Wind erosion
I69A: Wyandotte	65	   Excessive permeability
,		Lime content
İ		Ponding
		Potential poor tilth and compaction
· ·		Potential for ground-water contamination   Potential for surface-water contamination
j		Wet soil moisture status
<u> </u>		Wind erosion
		I

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	
and	map unit	considerations
component name		
   I69A:		
Foxlake	10	Lime content
		Ponding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wet soil moisture status
j	į	Wind erosion
İ	ļ	
Espelie	8	Ponding
	ļ	Potential for ground-water contamination
ļ		Potential for surface-water contamination
ļ		Wet soil moisture status
!		Wind erosion
	-	
Clearwater, depressional		Ponding  Retential poor tilth and dempagation
<u> </u>		Potential poor tilth and compaction
I I		Potential for ground-water contamination  Potential for surface-water contamination
· ·		Wet soil moisture status
i		
Thiefriver	5	Excessive permeability
I	ļ	Lime content
I	ļ	Ponding
I	j l	Potential for ground-water contamination
I	ļ l	Potential for surface-water contamination
I		Wet soil moisture status
ļ		Wind erosion
   Karlsruhe	4	Excessive permeability
kai isi wie		Limited available water capacity
· ·		Potential for ground-water contamination
i		Wet soil moisture status
i		Wind erosion
i		
Syrene	3	Excessive permeability
ļ		Lime content
		Limited available water capacity
!		Ponding
ļ	'	Potential for ground-water contamination
ļ		Potential for surface-water contamination
		Wet soil moisture status Wind erosion
· ·		wind elosion
I70A:		
Strathcona	70	Excessive permeability
İ	ļ	Lime content
İ	ļ	Ponding
İ	ļ	Potential for ground-water contamination
I	j į	Potential for surface-water contamination
I	ļ	Wet soil moisture status
ļ		Wind erosion
	,	
Vmatha	10	
  Kratka  		Excessive permeability
		Ponding
		Ponding Potential for ground-water contamination
		Ponding Potential for ground-water contamination Potential for surface-water contamination
		Ponding Potential for ground-water contamination

Table 6.--Cropland Management Considerations--Continued

Pct. of	:
map unit	considerations
<u> </u>	
l 1 6	   Lime content
!	Ponding
i I	Potential for ground-water contamination
i I	Potential for surface-water contamination
i	Wet soil moisture status
İ	Wind erosion
_	
5	Excessive permeability
l i	Lime content   Potential for ground-water contamination
l I	Wet soil moisture status
i I	Wind erosion
İ	İ
3	Excessive permeability
 	Lime content
! !	Ponding   Potential for ground-water contamination
i İ	Potential for surface-water contamination
i	Wet soil moisture status
j	Wind erosion
] 3	Excessive permeability
	Lime content
	Limited available water capacity
l I	Ponding   Potential for ground-water contamination
l I	Potential for surface-water contamination
i i	Wet soil moisture status
j	Wind erosion
3 	Excessive permeability   Lime content
! 	Ponding
i İ	Potential for ground-water contamination
i i	Potential for surface-water contamination
i	Wet soil moisture status
İ	Wind erosion
l l 45	   Excessive permeability
į	High content of organic matter
j	Ponding
l	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
l l 45	   High content of organic matter
i	Ponding
İ	Potential for ground-water contamination
j	Potential for surface-water contamination
!	Wet soil moisture status
 	High content of organic matter
!	Ponding
İ	Potential for ground-water contamination
i	Potential for surface-water contaminatio
İ	Wet soil moisture status
	map unit    map unit   6

Table 6.--Cropland Management Considerations--Continued

Man gymbol	Pat of	Cropland management
Map symbol and	Pct. of map unit	Cropland management considerations
component name		
I71A:		
Kratka		Excessive permeability   Ponding
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
Northwood	   2	Eugaggius nammashilitu
NOT CHWOOD		Excessive permeability   High content of organic matter
		Ponding
İ		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
		wind erosion 
Roliss	2	Lime content
		Ponding
		Potential for ground-water contamination
	 	Potential for surface-water contamination Wet soil moisture status
	]	Wind erosion
İ		İ
Seelyeville, ponded		High content of organic matter
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
I72A: Pelan	l 65	   Evgoggive permeability
retaii	65	Excessive permeability   Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
Smiley	   10	   Ponding
Smiley	i	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Linveldt	   8	Eugaggiva paymaahility
LINVELUC		Excessive permeability   Potential for ground-water contamination
		Wet soil moisture status
İ		Wind erosion
What ha	l F	
Kratka		Excessive permeability Ponding
		Potential for ground-water contamination
İ		Potential for surface-water contamination
	ĺ	Wet soil moisture status
	1	Wind erosion
Strandquist	   5	   Excessive permeability
- '	-	Lime content
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination Wet soil moisture status
		Wind erosion
İ	Í	
Reiner		Potential for ground-water contamination
	i I	Wet soil moisture status   Wind erosion
ì	]	
'		•

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	
component name		
		<u> </u>
I72A:		
Eckvoll	3	Excessive permeability
		Potential for ground-water contamination
		Wet soil moisture status
		Wind erosion
I73A:		 
Boash	75	   Ponding
		Potential poor tilth and compaction
İ		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Clearwater	8	   Ponding
Clearwater	0	Potential poor tilth and compaction
		Potential for ground-water contamination
İ		Potential for surface-water contamination
		Wet soil moisture status
Deline	8	   Lime content
Roliss		Ponding
i		Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
Clearwater, depressional	5	   Ponding
crearwater, aepressionar		Potential poor tilth and compaction
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Kittson	2	   Potential for ground-water contamination
	_	Wet soil moisture status
İ		
Newfolden	2	Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wet soil moiscure status
I74A:		İ
Urban land	65	Not applicable
Endoaquents	35	   Not applicable
I75A:		
Radium	40	Excessive permeability
		Limited available water capacity   Potential for ground-water contamination
		Wind erosion
i		
Sandberg		Excessive permeability
		Limited available water capacity
		Potential for ground-water contamination Wind erosion
Garborg	15	Excessive permeability
1		Limited available water capacity
		Potential for ground-water contamination
		Wet soil moisture status   Wind erosion
· ·		
		!

Table 6.--Cropland Management Considerations--Continued

Map symbol	Pct. of	Cropland management
and	map unit	considerations
component name		
I75A: Oylen	10	   Excessive permeability   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Flaming	5	Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Karlsruhe	3	Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion
Venlo	3	Excessive permeability Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Hangaard	2	Excessive permeability Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Sioux	2	Excessive permeability Limited available water capacity Potential for ground-water contamination Wind erosion
M-W: Miscellaneous water	100	   Not applicable 
W: Water	   100 	   Not applicable 

(Yields are those that can be expected under a high level of management. They are for nonirrigated areas. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

Map symbol and component name	Pct. of map unit	Land capability	Alfalfa hay	Bromegrass-   alfalfa	Reed	Soybeans	Sunflowers	Barley	Spring wheat
component name	map and	capability	Tons	AUM*	Tons	Bu	Lbs	Bu	l Bu
	i						i		
B109A	i		j	j	4.0		i i		i
Bowstring	45	6w	İ	į	j j		į į		İ
Fluvaquents	40	6w	İ	į	j j		į į		İ
Hapludalfs	5	6e	İ	į	j j		į į		İ
Seelyeville	5	6w	İ	į	j j		į į		İ
Water	5		į	į	į		į į		į
B200A			   5.5	6.5	 			80	45
Garnes	70	1					1		
Chilgren	13	2w					1		
Eckvoll	5	3s					1		
Garnes, very stony	5	2e					1		
Grygla	4	4w					1		
Pelan	3	3s	1	ļ					
B201A			4.0	5.0	 		1300	60	35
Chilgren	75	2w					1		
Garnes	9	1	İ	İ	į į		į į		İ
Grygla	5	4w					1		
Grygla, depressional	5	бw					1		
Hamre	5	бw					1		
Pelan	1	3s		I					
B202A							 		
Cathro	80	бw							
Hamre	8	бw							
Chilgren	3	2w	[						
Northwood	3	бw	[						
Berner	2	бw							
Grygla	2	4w							
Seelyeville	2	6w							
B203A			i		5.5		¦ ¦		
Northwood	75	бw					1		
Hamre	10	6w	1		l İ		l İ		
Grygla	7	4w	[				1		
Berner	5	6w	1		l İ		l İ		
Chilgren	3	2w	I	1	ĺ		l İ		1

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay	Bromegrass-	Reed	Soybeans	Sunflowers	Barley	Spring whea
component name	map unit	capability	<u> </u>	alfalfa	canarygrass		<u>i                                     </u>		<u>i</u>
			Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
B204A			   4.0	5.0	 			65	l l 35
Roliss	75	2w	İ		i		i i		i
Grygla	8	4w	i	i	i		i i		i
Chilgren	5	2w	i	i	i		i i		i
Garnes	5	1	i	i	i		i i		i
Roliss, depressional	5	- 6w	i	i	i		i i		i
Hamre	2	6w	İ	i	i		i i		i
	- 1	,	i I	i			i i		i
B205A	İ		i	i	4.5		i i		i
Berner	80	бw							
Northwood	7	бw							
Grygla	5	4w							
Cathro	3	6w							1
Hamre	3	6w							1
Seelyeville	2	бw	!	ļ.			!!!		!
B206A			l I	 	   6.0		 		
Hamre	   80	бw	! !	i i			¦ ¦		1
Chilgren	00     8	2w	! !	I I			¦		1
Northwood	5     5	6w	! !	I I			¦		1
Cathro	3     3	6w	! !	I I			¦		1
Grygla	3	4w	! !	I I			¦		1
Roliss	2	2w	İ	i	i		i i		i
İ	İ		ĺ	İ	İ		į į		İ
B207A			4.0	5.0			1300	60	35
Pelan	70	3s							
Chilgren	10	2w							
Garnes	10	1							
Eckvoll	5	3s							
Grygla	5	4w							
B208A	 		   4.0	5.0	 		   1300	60	35
Grygla	75	4w	i	i	i i		į i		i
Chilgren	10	2w	i	i	i		į i		i
Eckvoll	5	3s	i	i	i		į i		i
Grygla, depressional	5	6w	i	i	i		į i		i
Northwood	5	бw	İ	i	j i		i i		j
70007									
B209A					4.0				ļ
Seelyeville	90	бw							1
Cathro	3	бw							1
Dora	3	бw	ļ.	!			<u> </u>		!
Markey	3	бw	ļ.	!			<u> </u>		!
Berner	1	бw					ı		1

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay	Bromegrass-	Reed	Soybeans	Sunflowers	Barley	Spring wheat
component name	map unit	capability	İ	alfalfa	canarygrass		<u> </u>		<u> </u>
			Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
  B210A	 		   4.0	   5.0	 		   1300	60	   35
Eckvoll		3s		1	i		 		
Chilgren	70     12	2w	i	i I	;		¦ ¦		i
Grygla	   8	4w	i	İ	i		i i		i
Garnes	,	1	i	İ	i		i i		i
Pelan	3	3s	İ	i	i i		i i		i
i	i i		İ	İ	j i		j j		İ
B211A									
Berner, ponded	45	8w							
Cathro, ponded	45	8w							
Chilgren	2	2w		[					
Grygla	2	4w		[					
Hamre	2	6w							
Northwood	2	6w							
Seelyeville, ponded	2	8w							
   I1A	 		   5.0	   6.0	 	30		85	l l 50
Augsburg	,   75	2w	İ	i	i i		i		i
Borup	10	2w	i	i	i i		i i		i
Foxlake	5	2w	i	i	i i		i i		i
Augsburg, depressional	3	6w	i	i	i i		i i		i
Wheatville	3	2s	i	i	i i		i i		i
Glyndon	2	2s	į	į	į i		i i		i
Espelie	1	2w	į	İ	j i		i i		i
Hattie	1	2e	İ	İ	į į		l l		İ
 			 	 	4.5		 		
Berner	   80	6w	i	i I	1 1.5		¦ ¦		i
Northwood	00     7	6w	i	i	i i		i i		i
Kratka	, ,   5	2w	i	i	i i		i i		i
Hamre	,	6w	i	İ	i		i i		i
Strathcona	3     3	2w	i	i	i i		i i		i
Seelyeville	2	6w	İ	i	i i		i i		i
				!			<u> </u>		
14A		<b>6</b>			4.0				
Berner	30	бw							!
Rosewood, depressional	30	бw	I I	I I	 				1
Strathcona, depressional	30     4	6w 3w	I I	I I	 				1
Deerwood	4     2		I I	I I	 				1
Mavie	2     2	6w 3w	I I	I I	 				1
Mavie  Strathcona	2     2	3w 2w	I I	I I			ı   		1
prigincoug		∠W	!	!	!		!		1

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay		Reed	Soybeans	Sunflowers	Barley	Spring whea
component name	map unit	capability	<u> </u>	alfalfa	canarygrass				<u> </u>
			Tons	AUM*	Tons	Bu I	Lbs	Bu	Bu
I5A	i		5.0	6.0	i i	30	2000	85	50
Borup	75	2w					1		
Glyndon	9	2s			[ [		1		1
Rosewood	8	3w			[ [		1		1
Augsburg	5	2w		ĺ	[ [		1		1
Augsburg, depressional	3	бw	İ						İ
I7A				 	4.0		 		
Bowstring	45	6w			[		1		
Fluvaquents	45	бw							
Hapludolls	5	2e							
Water	5		I			 			
I8A				i	5.5		¦ ¦		
Cathro	80	бw					1		
Hamre	8	6w			[ [		1		1
Northwood	3	6w		ĺ	[		1		1
Roliss	3	2w	İ	ĺ	į i		į į		İ
Berner	2	6w	İ	İ	į i		i i		İ
Kratka	2	2w	İ	İ	į i		i i		İ
Seelyeville	2	бw	į	į	į į		į į		į
 			4.0	5.0	 	   30		80	45
Clearwater	80	2w	İ	ĺ	į i		į į		İ
Clearwater, very cobbly	5	2w	İ	ĺ	į i		į į		İ
Reis	5	2w	İ	ĺ	į i		į į		İ
Clearwater, depressional	3	6w	İ	ĺ	į į		į į		İ
Espelie	3	2w	İ	ĺ	į i		į į		İ
Foxlake	2	2w	İ	ĺ	į į		į į		İ
Hattie	1	2e	İ	İ	į i		į į		İ
Huot	1	2s	į	į	į		į į		į
   I11A				 	5.0				
Deerwood	85	6w			į i		į į		
Rosewood	6	3w			į i		į į		
Markey	3	6w			į i		į į		
Strathcona	2	2w	İ	İ	į i		į į		İ
Syrene	2	4w	İ	İ	į i		į į		İ
Venlo	2	6w	i	i	i i		į į		i

Map symbol and Pct. of | Alfalfa hay |Bromegrass-Soybeans Sunflowers Spring wheat Land Reed Barley component name map unit | capability alfalfa canarygrass AUM\* Lbs Tons Tons Bu Bu Bu I12A-----5.0 6.0 30 1400 65 35 ---Eckvoll------70 3s Kratka-----8 2w Smiley-----7 2w Linveldt-----3s Reiner-----5 1 Foldahl-----2 3s Pelan-----2 3s Poppleton-----1 4s I13A-----| 1500 4.0 4.5 30 70 40 ---Espelie-----| 2w Foxlake-----8 2w Hilaire-----7 3s Clearwater, depressional 5 бw Thiefriver-----5 2w I15A-----4.5 5.5 ---30 1200 60 35 Flaming-----| 70 4s Garborg-----| 10 3w Hamar-----| 5 3w Ulen-----| 5 3s Poppleton-----3 4s Sandberg-----| 3 4s Foldahl-----2 3s Radium-----2 4s I16F--------6.0 4.0 ------------Fluvaquents----бw Hapludolls-----25 2e Hapludalfs-----7 6e Fairdale-----5 3e Water-----5 Bowstring----бw Rauville-----1 бw I17A-----4.0 5.5 ---35 1600 75 40 Foldahl-----75 2s Kratka-----2w Roliss-----5 2w Flaming-----| 4s Grimstad-----2 2s Linveldt-----3s Eckvol1------3s 1 Strathcona-----1 2w

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

See footnote at end of table.

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay		Reed	Soybeans	Sunflowers	Barley	Spring wheat
component name	map unit	capability		alfalfa	canarygrass				
			Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
I18A			4.0	5.0	i i	30	1400	70	40
Foldahl	75	3s							
Kratka	10	2w							
Roliss	5	2w							
Flaming	4	4s							
Grimstad	2	2s							
Linveldt	2	3s			1 1		l I		
Eckvoll	1	3s							
Strathcona	1	2w	į	į	į į		į		
 			4.0	5.0	 	25	   1200	55	]   30
Foxhome	65	3e							
Kittson	10	1	ĺ	İ	į į		į į		İ
Strandquist	10	3w	ĺ	İ	į į		į į		İ
Foldahl	5	2s	ĺ	İ	į į		į į		İ
Grimstad	5	2s	ĺ	İ	į į		į į		İ
Roliss	3	2w	ĺ	İ	į į		į į		İ
Mavie	2	3w	į	į	į į		į į		į
   I20A	 		4.0	   5.0		30	   1800	80	40
Foxlake	75	2w	ĺ	İ	į į		į į		İ
Clearwater	5	2w	İ	İ	į į		j j		İ
Foxlake, very cobbly	5	2w	İ	İ	į į		j j		İ
Augsburg	3	2w	İ	İ	į į		j j		İ
Clearwater, depressional	3	бw	į	į	į į		j j		į
Espelie	3	2w	İ	İ	į į		j j		İ
Hilaire	2	3s	İ	İ	į į		j j		İ
Reis	2	2w	İ	İ	į į		j j		İ
Wheatville	2	2s	į	į	į į		į į		į
   I22A	 		   6.0	   7.0		45	   2500	95	   55
Glyndon	75	2s	İ	İ	į i		į į		İ
Borup	10	2w	İ	İ	į i		į i		İ
Augsburg	5	2w	i	i	į i		j i		i
Ulen	5	3s	i	i	į i		j i		i
Wheatville	3	2s	i	i	į i		j i		i
Flaming	2	4s	i	i	i i		i 'i		i

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay	Bromegrass-	Reed	Soybeans	Sunflowers	Barley	Spring wheat
component name	map unit	capability	L	alfalfa	canarygrass				
!	ļ		Tons	AUM*	Tons	Bu	Lbs	Bu	l Bu
 	l		   5.0	6.0	 	30	   1600	75	l 40
Grimstad	70 İ	2s	i	i	i i		i i		i
Strathcona	12	2w	i	i	i i		i i		i
Foldahl	5 İ	2s	i	i	i i		i i		i
Hamerly	5 İ	2s	i	i	i i		i i		i
Foxhome	2	3e	i	i	i i		i i		i
Karlsruhe	2	4e	i	i	i i		i i		i
Mavie	2	3w	i	i	i i		i i		i
Ulen	2	3s	i	i	i		i i		i
i	i		i	i	i i		i i		i
	i		3.5	4.0	i	25	1300	55	35
Hamar	75	3w			i i				i
Garborg	10	3w	i	i	i i		i i		i
Rosewood	7	3w	i	i	i		i i		i
Venlo	3	6w	i	i	i		i i		i
Flaming	2	4s	i	i	i		i i		i
Hangaard	2	4w	i	i	i		i i		i
Kratka	1	2w	i	i	i		i i		i
1	- ¦		İ	İ	i		i i		i
	i		6.0	7.0		35		90	50
Hamerly	75 I	2s	1	i	i		i i		
Vallers	12	2w	İ	İ	i		i i		i
Foxhome	3	3e	İ	İ	i		i i		i
Grimstad	3	2s	İ	İ	i		i i		i
Hamerly, very cobbly	3	2s	i	i	i		i i		i
Strathcona	3	2w	İ	İ	i		i i		i
Roliss, depressional	1	6w	İ	İ	i		i i		i
NOTIDE, GOPTOBETONIAL	-	0 #	;		i i		;		i
	i		i	i	6.0		i i		i
Hamre	80 İ	6w	i	i	i i		i i		i
Northwood	5 İ	6w	i	i	i i		i i		i
Roliss	5 İ	2w	i	i	i i		i i		i
Smiley	5 İ	2w	i	i	i i		i i		i
Cathro	з і	6w	i	i	i i		i i		i
Kratka	2	2w	i	i	i i		i i		i
i	i		i	i	i i		i i		i
I32A	i		5.0	6.0	i i	30	1600	75	40
Hilaire	75 İ	2s	i	i	i i		i i		i
Espelie	12	2w	i	i	i i		i i		i
Huot	5	2s	i	i	i i		i i		i
Flaming	2	4s	i	i	i i		i i		i
Foxlake	2	2w	i	i	j i		į i		i
Wheatville	2	2s	i	i	į i		į i		i
Thiefriver	1	2w	i	i	; 		;		i
Wyandotte	1 1	3w	i	i	<u> </u>		: :		1

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and component name	Pct. of map unit	Land capability	Alfalfa hay	Bromegrass-   alfalfa	Reed canarygrass	Soybeans	Sunflowers	Barley	Spring whea
			Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
  134A	l		5.0	6.0	 	30	   1600	75	   40
Huot	75 l	2s			i		1 2000 1		
Thiefriver	12	2w	i i						1
Hilaire	5	2 w 2 s	I I		 				
Flaming	3 I	4s	I I		 				
Foxlake	3 I	2w	I I		 				
Ulen	2	3s	I I		 		 		1
oren	-	35	i	i	i		i i		i
[36A	j		6.0	7.0	i i	35	2200	90	50
Kittson	70	1							
Roliss	12	2w							
Hamerly	5	2s							
Kratka	5	2w							
Grimstad	3	2s							
Strandquist	3	3w							
Foxhome	2	3e	ļ						ļ
ا 	 		4.0	4.5	 	30		70	1 40
Kratka	70 İ	2w	i	i	i i		i i		i
Smiley	7	2w	i	i	i		i i		i
Foldahl	5 İ	2s	i	i	i		i i		i
Kratka, very cobbly	5	2w	i	i	i		i i		i
Strathcona	5	2w	i	i	i		i i		i
Kratka, depressional	3	2w	i	i	i		i i		i
Strandquist	3	3w	i	i	i		i i		i
Linveldt	2	3s	i	İ	i i		i i		i
 			   5.0	6.0	 	30	   1600	75	40
Linveldt	(F )	3s	] 5.0	1 6.0		30	1 1600	/5	1 40
Kratka	65	3s 2w	l i	l i					1
Reiner	14	2w 1	l i	l i					1
Smiley	10   5	2w	l i	l i					1
Eckvoll	3 I	2w 3s	l i	l i					1
Foldahl	2	3s 2s							
Pelan	1	3s		l I	 		 		
   141a	j		i	i	4.5		i i		i
Markey	80	бw							1
Deerwood	12	бw							1
Berner	2	бw			I i		l İ		1
Hamar	2	3w			I i		l İ		1
Seelyeville	2	бw			I i		l İ		1
Syrene	2	4w			i i		ı i		1

Map symbol and Pct. of |Alfalfa hay |Bromegrass- | Soybeans Sunflowers Spring wheat Land Reed Barley component name map unit | capability alfalfa canarygrass AUM\* Lbs Bu Tons Tons Bu Bu I42A--------------------------Markey, ponded-----8w Markey-----5 бw Deerwood-----6w Seelyeville, ponded-----8w Hamar-----1 3w Hangaard-----1 4w I43A-----3.5 4.0 25 1300 60 35 ---Mavie-----| 3w Vallers-----| 10 2w Strandquist-----7 3w Strathcona-----5 2w Strathcona, depressional 3 бw Foxhome-----3e Karlsruhe-----| 2 4e Grimstad-----1 2s I44A-----6.5 2100 5.0 ---35 90 50 Newfolden-----75 2s Smiley-----| 12 2w Boash-----2w Linveldt-----4 3s Hapludolls-----2e I45A--------5.5 ------------Northwood-----75 бw Hamre-----| 10 бw Berner----бw Kratka-----| 2w 5 Strandquist-----| 3 3w Roliss-----2w I46A-----

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

See footnote at end of table.

85

10

2

1

1

1

---

8s

4s

4s

4s

4s

Pits-----|

Udipsamments-----

Radium-----

Maddock-----

Marquette-----

Sandberg-----

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay	Bromegrass-	Reed	Soybeans	Sunflowers	Barley	Spring whea
component name	map unit	capability	L		canarygrass				
<u> </u>			Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
   I47A			3.5	4.0	i i	l 15		35	20
Poppleton	75	4s			i				i
Flaming	12	4s	i	i	i		i i		i
Garborg	5	3w	i	i	i		i i		i
Hamar	3	3w	i	i	i		i i		i
Radium	2	4s	i	i	i		i i		i
Ulen	2	3s	İ	i	i .		i i		i
Maddock	1	4s	i I				¦ ¦		
Maddock	-	7.5	i i	İ	 		! ! ! !		i
I48A			3.5	4.0	i i	15	1000	35	20
Radium	75	4s	İ	İ	į i		i i		İ
Sandberg	7	4s	İ	İ	į i		i i		İ
Oylen	5	3s	į	İ	i i	İ	i i		İ
Flaming	4	4s	į	İ	i i	İ	i i		İ
Garborg	3	3w	i	i	i i	İ	i i		İ
Hangaard	3	4w	i	i	i i	İ	i i		İ
Hamar	2	3w	i	i	i i		i i		i
Poppleton	1	4s	į	İ	į i	İ	i i		i
İ	İ		İ	İ	į i		į į		İ
I50A	İ		6.0	7.0	j i	35	2100	90	50
Reiner	70	1	İ	İ	į į		į į		Ì
Smiley	12	2w	İ	İ	į į		į į		Ì
Reiner, very cobbly	7	1	İ	İ	į i		į į		Ì
Linveldt	5	3s	İ	İ	į i		į į		Ì
Eckvol1	3	3s	İ	İ	į į		į į		Ì
Kratka	3	2w	İ	İ	į i	İ	j j		İ
I			[						
I51A			6.0	7.0		30	1900	85	45
Reiner	65	2s			[ [				
Smiley	9	2w			[				
Reiner fine sandy loam	8	1			[ [				
Linveldt	7	3s			[ [				
Kratka	5	2w			[				
Eckvoll	3	3s	İ	İ	į i		į į		Ì
Reiner, very cobbly	3	1	İ	İ	j i	ĺ	j j		İ
ļ	ļ		[	1	[ [				
152A			4.0	5.0	! !	30	1900	85	45
Reis	55	2w	ļ.	!	!		<u> </u>		!
Clearwater	30	2w	ļ.	!	!		<u> </u>		!
Clearwater, very cobbly	5	2w	ļ.	!	!		! !		!
Clearwater, depressional	3	бw	ļ	!	<u> </u>		! I		!
Espelie	3	2w	Į.	ļ	[		ị l		ļ.
Hattie	3	2e	ļ.	1	[		<u> </u>		!
Wyandotte	1	3w							

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay		Reed	Soybeans	Sunflowers	Barley	Spring wheat
component name	map unit	capability	<u> </u>	alfalfa	canarygrass		<u> </u>		<u> </u>
			Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
I53A			5.0	6.0	i i	30	1800	85	45
Roliss	75	2w							
Kratka	8	2w			1 1				1
Roliss, very cobbly	7	2w	İ	İ	į į		İ		İ
Kittson	5	1	İ	İ	į į		İ		İ
Roliss, depressional	3	6w	İ	į	į į		j j		İ
Smiley	2	2w	į	į	į į		į į		į
I54A				 			 		
Roliss, depressional	80	6w	i	i	i i		i i		i
Roliss	12	2w	i	i	i i		i i		i
Hamre	5	6w	i	i	i i		i i		i
Kratka	3	2w	į	į	į į		į į		į
   I55A			3.5	4.0	 	25	   1300	55	   30
Rosewood	75	3w			i		 		
Ulen	10	3s	i	i	i		i i		i
Hamar	6	3w	i	i	i i		i i		i
Rosewood, depressional	3	6w	i	i	i i		i i		i
Syrene	3	4w	i	i	i i		i i		i
Karlsruhe	1	4e	i	i	i i		i i		i
Strathcona	1	2w	i	i	i i		i i		i
Thiefriver	1	2w	İ	İ	i i		į į		i
   I57B			3.5	4.5	 	15	   900	30	   15
Sandberg	50	4s			i		, , , , , , , , , , , , , , , , , , ,		
Radium	25	4s	i	İ	i		i i		i
Sioux	8	6s	i	İ	i		i i		i
Ovlen	7	3s	i	İ	i		i i		i
Flaming	, 5	4s	i	İ	i		i i		i
Garborg	5	3w	i	İ	i i		i i		i
   I58A					   5.5		 		
Seelyeville	90	бw	i	i	5.5		;		i
Cathro	3	6w	i i	i I	! 		,   		1
Dora	3	6w	i i	i I	! 		,   		
Markey	3	6w	i i		! 		, , , ,		1
Berner	1	6w	! !	1			! ! ! !		1

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay	Bromegrass-	Reed	Soybeans	Sunflowers	Barley	Spring wheat
component name	map unit	capability	I	alfalfa	canarygrass				1
ļ	ļ		Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
 			5.0	6.0	 	30		85	45
Smiley	65	2w	İ	İ	į į		j j		İ
Smiley, very cobbly	10	2w	İ	İ	į į		j j		İ
Kratka	9	2w	İ	İ	į į		j j		İ
Roliss	5	2w	İ	İ	į į		j i		İ
Reiner	4	1	İ	İ	į į		j i		İ
Linveldt	3	3s	İ	İ	į į		j i		İ
Smiley, depressional	3	бw	İ	İ	į į		į į		İ
Strandquist	1	3w	İ	İ	į į		j j		İ
i	i		İ	İ	į į		j j		İ
I60A	i		j	j	5.0		i i		j
Smiley, depressional	80	6w	İ	İ	į į		j j		İ
Smiley	10	2w	İ	İ	į į		j j		İ
Hamre	5	6w	İ	İ	į į		j j		İ
Kratka	5	2w	İ	İ	į į		j j		İ
i	i		İ	İ	į į		j j		İ
I61A	İ		3.5	4.0	i i	25	1300	60	35
Strandquist	70	3w	İ	İ	į į		į į		İ
Mavie	8	3w	İ	İ	į į		j j		İ
Roliss	7	2w	İ	İ	į į		j j		İ
Kratka	5	2w	İ	İ	į į		j j		İ
Foxhome	4	3e	İ	İ	į į		j j		İ
Hangaard	3	4w	İ	İ	į į		j j		İ
Northwood	3	бw	İ	İ	į į		j i		İ
İ	İ		İ	İ	į į		į į		İ
I62A	İ		3.0	3.5	i i	20	1000	40	25
Syrene	70	4w	İ	İ	į į		į į		İ
Rosewood	11	3w	İ	İ	į į		į į		İ
Hangaard	5	4w	İ	İ	į į		į į		İ
Karlsruhe	4	4e	İ	İ	į į		į į		İ
Deerwood	3	бw	İ	İ	į į		į į		İ
Hamar	3	3w	İ	İ	į į		į į		İ
Strandquist	2	3w	İ	İ	į į		į į		İ
Radium	1	4s	İ	İ	į į		į į		İ
Wyandotte	1	3w	į	İ	į į				İ
   163A			4.0	4.5	 	30	   1500	70	   40
Thiefriver	70	2w			i i		1 1	, ,	
Espelie	10	2w	i	i	i i		i i		i
Foxlake	7	2w	i	i	i i		i i		i
Huot	, , 5 l	2s	i	i	; i		;		i
Clearwater, depressional	3	6w	i	i	;		;		i
Rosewood	3	3w	i	i	;		;		i
Ulen	1	3s	i	i	;		; ;		i
Wyandotte	1	3w	i	1	;		;		1

Map symbol and Pct. of |Alfalfa hay |Bromegrass- | Sunflowers Land Reed Soybeans Barley Spring wheat component name map unit | capability alfalfa canarygrass AUM\* Bu Tons Tons Bu Lbs Bu I64A-----4.5 5.5 30 1200 60 35 ---Ulen-----| 3s Rosewood-----10 3w Flaming-----4s8 Karlsruhe-----4e Radium-----3 4s Strathcona-----2 2w Thiefriver-----2 2w I65A-----4.5 5.5 25 1100 55 30 Ulen-----| 70 3s Rosewood------10 3w Flaming-----4s 6 Poppleton-----4s Karlsruhe-----3 4e Radium-----3 4s Strathcona-----2 2w Thiefriver-----2 2w I66A-----5.0 6.0 ---30 1800 85 45 Vallers-----75 2w Vallers, very cobbly----2w Hamerly-----| 2s 6 Grimstad-----| 2s Mavie-----3w Roliss, depressional----3 бw Strathcona-----2w I67A-----6.0 7.0 ---45 2500 95 55 Wheatville-----70 2s Augsburg-----13 2w Glyndon-----8 2s Foxlake-----5 2w Hilaire-----3s Ulen-----|

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

3s I69A-----3.5 4.0 25 1300 60 35 Wyandotte-----65 3w Foxlake-----| 10 2w Espelie-----2w 8 Clearwater, depressional 5 бw Thiefriver-----5 2w Karlsruhe-----4e Syrene-----4w

See footnote at end of table.

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay		Reed	Soybeans	Sunflowers	Barley	Spring wheat
component name	map unit	capability	<u> </u>	alfalfa	canarygrass		<u> </u>		<u> </u>
			Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
   I70A			4.0	4.5		30	1600	70	40
Strathcona	70	2w		1					
Kratka	10	2w		1					
Roliss	6	2w		1					
Grimstad	5	2s	ĺ	ĺ	İ		İ		İ
Mavie	3	3w	ĺ	ĺ	İ		İ		İ
Rosewood	3	3w	ĺ	ĺ	İ		İ		İ
Strathcona, depressional	3	бw	į	į	į		į		į
Berner, ponded	45	8w	İ	İ	j j		j j		į
Cathro, ponded	45	8w	İ	İ	j j		j j		į
Hamre	2	6w	İ	İ	j j		j j		į
Kratka	2	2w	İ	İ	j j		j j		į
Northwood	2	6w	İ	İ	j j		j j		į
Roliss	2	2w	İ	İ	j j		j j		į
Seelyeville, ponded	2	8w	į	į	į		į		į
   I72A			   4.0	   5.0	 	25	   1300	60	   35
Pelan	65	3s	ĺ	ĺ	İ		İ		İ
Smiley	10	2w	ĺ	ĺ	İ		İ		İ
Linveldt	8	3s	ĺ	ĺ	İ		İ		İ
Kratka	5	2w	ĺ	ĺ	İ		İ		İ
Strandquist	5	3w	ĺ	ĺ	İ		İ		İ
Reiner	4	1	ĺ	İ	İ		İ		İ
Eckvoll	3	3s	į	į	į		į		į
   I73A			   4.0	   5.0	 	30	   1800	80	40
Boash	75	2w	İ	İ	j j		j j		į
Clearwater	8	2w	İ	İ	j j		j j		į
Roliss	8	2w	İ	İ	j j		j j		į
Clearwater, depressional	5	6w	İ	İ	j j		j j		į
Kittson	2	1	İ	İ	j j		j j		į
Newfolden	2	2s		İ	į į		į į		į
174A.			 	 	 		 		 
Urban land-Endoaquents	į		İ	į	i i		i i		İ

See footnote at end of table.

Table 7.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and	Pct. of	Land	Alfalfa hay	Bromegrass-	Reed	Soybeans	Sunflowers	Barley	Spring wheat
component name	map unit	capability		alfalfa	canarygrass				
I			Tons	AUM*	Tons	Bu	Lbs	Bu	Bu
T75a			   3.5	4.5	 		   900	   35	1.
1/JR			3.5	4.5	ļ	15	900	35	15
Radium	40	4s							
Sandberg	20	4s							
Garborg	15	3w							
Oylen	10	3s	1						
Flaming	5	4s	ĺ	İ	ĺ				İ
Karlsruhe	3	4e	ĺ	İ	ĺ		ĺ		İ
Venlo	3	6w	ĺ	İ	ĺ		ĺ		İ
Hangaard	2	4w	ĺ	İ	ĺ				İ
Sioux	2	6s	İ	į	İ				İ
M-W.	l		 	 	 	] 	 	Ī	I I
Miscellaneous water	j		İ	i					İ
I			Ī						1
w.	į		İ	İ	İ				İ
Water	j		ĺ	ĺ	ĺ				İ

<sup>\*</sup> Animal unit month: The amount of forage or feed required to feed one animal unit (one cow, one horse, one mule, five sheep, or five goats) for 30 days.

Table 8.--Forage Suitability Groups

(See text for an explanation of forage suitability groups)

Map symbol	
and component name	_
COmponent name	group
.09A:	
Bowstring	16
    	16
    	23
  Seelyeville  	14
  ater  	
200A:	
arnes	02
hilgren	01
    	02
darnes, very stony	02
 	01
  Pelan  	02
01A:	
hilgren	01
 	02
 	01
   Trygla, depressional	13
  amre  	13
  Pelan  	02
02A:	
athro	14
  amre	13
 	01
  orthwood	13
  Berner	14
 	01
 	14
03A:	
Northwood	13
amre	13
ı	

Table 8.--Forage Suitability Groups--Continued

Map symbol and	Forage suitability
component name	group
B203A: Berner	14
Chilgren	01
B204A: Roliss	09
Grygla	01
Chilgren	01
Garnes	02
Roliss, depressional	13
Hamre	13
B205A: Berner	14
Northwood	13
Grygla	01
Cathro	14
Hamre	13
Seelyeville	14
B206A:	
Hamre	13
Chilgren	01
Northwood	13
Cathro	14
Grygla	01
Roliss	09
B207A:	
Pelan	02
Chilgren	01
Garnes	02
Eckvoll	02
Grygla	01
B208A: Grygla	01
Chilgren	01
Eckvoll	02

Table 8.--Forage Suitability Groups--Continued

Map symbol and component name	Forage   suitability
component name	group
B208A: Grygla, depressional	13
Northwood	   13 
B209A:	 
Seelyeville	14 
Cathro	14 
Dora	14   14
Markey	14
Berner	   14 
B210A:	 
Eckvoll	02
Chilgren	01
Grygla	01
Garnes	02
Pelan	02
B211A:	 
Berner, ponded	   24 
Cathro, ponded	24 
Chilgren	01
Grygla	01
Hamre	13
Northwood	13
Seelyeville, ponded	   24 
I1A:	 
Augsburg	09
Borup	09
Foxlake	09
Augsburg, depressional	   13
Wheatville	   10
Glyndon	   10
Espelie	   01
Hattie	   10 
	ı

Table 8.--Forage Suitability Groups--Continued

Map symbol and	Forage suitability
component name	group
I3A: Berner	14
Northwood	13
Kratka	01
Hamre	13
Strathcona	09
Seelyeville	14
I4A: Berner	14
Rosewood, depressional	13
Strathcona, depressional	13
Rosewood	11
Deerwood	13
Mavie	09
Strathcona	09
I5A: Borup	09
Glyndon	10
Rosewood	11
Augsburg	09
Augsburg, depressional	13
I7A: Bowstring	16
Fluvaquents	16
Hapludolls	17
Water	
18A: Cathro	14
Hamre	13
Northwood	13
Roliss	09
Berner	14
Kratka	01
Seelyeville	14

Table 8.--Forage Suitability Groups--Continued

Map symbol	Forage
	suitability
component name	group
19A:	] !
Clearwater	   01
Clearwater	]
Clearwater, very	 
cobbly	01
Reis	09
Clearwater,	İ
depressional	13
Espelie	01
Foxlake	09
Hattie	10
Huot	10
T113.	] !
I11A: Deerwood	   13
Deer wood	] 13 
Rosewood	   11
Robewood	<del>  11</del> 
Markey	14
•	
Strathcona	09
	İ
Syrene	11
Venlo	13
I12A:	
Eckvoll	02
W	
Kratka	01
Smiley	   01
Smiley	]
Linveldt	02
	·
Reiner	02
Foldahl	02
Pelan	02
Poppleton	04
I13A:	
Espelie	01
Foxlake	09
**** 1 - 4	
Hilaire	02
Clearwater,	] 
depressional	l l 13
dopt obbionat	, ±3 
Thiefriver	l 09
- <del></del>	
	•

Table 8.--Forage Suitability Groups--Continued

Map symbol and	Forage suitability
component name	group
I15A: Flaming	04
Garborg	04
Hamar	03
Ulen	12
Poppleton	04
Sandberg	04
Foldahl	02
Radium	04
I16F:	
Fluvaquents	İ
Hapludolls	17 
Hapludalfs	
Fairdale	23
Water	<del></del>
Bowstring	16 
Rauville	13
I17A: Foldahl	02
Kratka	01
Roliss	09
Flaming	04
Grimstad	10
Linveldt	02
Eckvoll	02
Strathcona	09
I18A: Foldahl	02
Kratka	01
Roliss	09
Flaming	04
Grimstad	10
Linveldt	02

Table 8.--Forage Suitability Groups--Continued

Map symbol and	Forage suitability
component name	group
I18A: Eckvoll	02
Strathcona	09
I19A: Foxhome	02
Kittson	02
Strandquist	09
Foldahl	02
Grimstad	10
Roliss	09
Mavie	09
I20A: Foxlake	09
Clearwater	01
Foxlake, very cobbly	09
Augsburg	09
Clearwater, depressional	13
Espelie	01
Hilaire	02
Reis	09
Wheatville	10
I22A: Glyndon	10
Borup	09
Augsburg	09
Ulen	12
Wheatville	10
Flaming	04
I24A: Grimstad	10
Strathcona	09
Foldahl	02
Hamerly	10

Table 8.--Forage Suitability Groups--Continued

	1
Map symbol and component name	Forage suitability group
Component name	group
I24A: Foxhome	02
Karlsruhe	12
Mavie	09
Ulen	12
I25A: Hamar	03
Garborg	04
Rosewood	11
Venlo	13
Flaming	04
Hangaard	03
Kratka	01
I26A: Hamerly	10
Vallers	09
Foxhome	02
Grimstad	10
Hamerly, very cobbly	10
Strathcona	09
Roliss, depressional	13
I27A: Hamre	13
Northwood	13
Roliss	09
Smiley	01
Cathro	14
Kratka	01
I32A: Hilaire	02
Espelie	01
Huot	10
Flaming	04

Table 8.--Forage Suitability Groups--Continued

Map symbol and component name	Forage suitability group
I32A: Foxlake	09
Wheatville	10
Thiefriver	09
Wyandotte	09
I34A: Huot	10
Thiefriver	09
Hilaire	02
Flaming	04
Foxlake	09
Ulen	12
I36A: Kittson	02
Roliss	09
Hamerly	10
Kratka	01
Grimstad	10
Strandquist	09
Foxhome	02
I38A: Kratka	01
Smiley	01
Foldahl	02
Kratka, very cobbly	01
Strathcona	09
Kratka, depressional	13
Strandquist	09
Linveldt	02
I39A: Linveldt	02
Kratka	01
Reiner	02
Smiley	01

Table 8.--Forage Suitability Groups--Continued

Map symbol and component name	Forage suitability group
I39A: Eckvoll	02
Foldahl	02
Pelan	02
I41A: Markey	14
Deerwood	13
Berner	14
Hamar	03
Seelyeville	14
Syrene	11
I42A: Markey, ponded	24
Markey	14
Deerwood	13
Seelyeville, ponded	24
Hamar	03
Hangaard	03
I43A:	
Mavie	09
Vallers	09
Strandquist	09
Strathcona	09
Strathcona, depressional	13
Foxhome	02
Karlsruhe	12
Grimstad	10
I44A: Newfolden	02
Smiley	01
Boash	09
Linveldt	02
Hapludolls	17

Table 8.--Forage Suitability Groups--Continued

Map symbol	Forage				
and	suitability				
component name	group				
I45A:					
Northwood	13				
Hamre	13				
Berner	14				
Kratka	01				
Strandquist	09				
Roliss	09				
I46A:					
Pits					
Udipsamments					
Radium	04				
Maddock	04				
Marquette	22				
Sandberg	04				
I47A:					
Poppleton	04				
_					
Flaming	04				
Garborg	04				
**					
Hamar	03				
D = 44					
Radium	04				
W1 em	l . 12				
Ulen	12				
Maddock	l 04				
Maddock	∪4±  -				
I48A:	 				
Radium	l 04				
Radium	U-=				
Candhana	   04				
Sandberg	U-=				
Oylen	   08				
Oylen	08 				
Flaming	   04				
amilia	i				
Garborg	   04				
Garborg	i				
Hangaard	   03				
gaar a	i 93				
Hamar	   03				
	i 55				
Poppleton	   04				
	,				
	1				

Table 8.--Forage Suitability Groups--Continued

Map symbol and	Forage suitability			
component name	group			
I50A: Reiner	02			
Smiley	01			
Reiner, very cobbly	02			
Linveldt	02			
Eckvoll	02			
Kratka	01			
I51A: Reiner	02			
Smiley	02			
	İ			
Reiner fine sandy loam	02			
Linveldt	02 			
Kratka	01			
Eckvoll	02			
Reiner, very cobbly	02			
I52A: Reis	09			
Clearwater	01			
	,			
Clearwater, very	01			
Clearwater, depressional	13			
Espelie	01			
Hattie	10			
Wyandotte	09 			
I53A: Roliss	09			
Kratka	01			
Roliss, very cobbly	09			
Kittson	02			
Roliss, depressional	13			
Smiley	01			
I54A: Roliss, depressional	13			
Roliss	09			

Table 8.--Forage Suitability Groups--Continued

Map symbol and	Forage   suitability
component name	group
I54A: Hamre	 
Kratka	   01 
I55A: Rosewood	11
Ulen	   12 
Hamar	   03 
Rosewood, depressional	13
Syrene	11
Karlsruhe	12
Strathcona	09
Thiefriver	09 
I57B: Sandberg	04
Radium	   04
Sioux	04
Oylen	08
Flaming	04
Garborg	04
I58A: Seelyeville	 
Cathro	14
Dora	14
Markey	14
Berner	14   14
I59A: Smiley	   01
Smiley, very cobbly	01
Kratka	01 
Roliss	   09 
Reiner	02
Linveldt	02
Smiley, depressional	   13 
Strandquist	09

Table 8.--Forage Suitability Groups--Continued

Map symbol and	Forage suitability			
component name	group			
I60A: Smiley, depressional	   13 			
Smiley	01			
Hamre	13			
Kratka	01			
I61A: Strandquist	09			
Mavie	   09			
Roliss	   09			
Kratka	01			
Foxhome	02			
Hangaard	03			
Northwood	13			
I62A:	İ			
Syrene	11 			
Rosewood	   11 			
Hangaard	03			
Karlsruhe	12 			
Deerwood	13 			
Hamar	03			
Strandquist	09 			
Radium	04 			
Wyandotte	09			
I63A: Thiefriver	   09			
Espelie	   01			
Foxlake	   09 			
Huot	1   10 			
Clearwater,	 			
depressional	13			
Rosewood	   11 			
Ulen	   12 			
Wyandotte	09 			

Table 8.--Forage Suitability Groups--Continued

Map symbol and	   Forage   suitability
component name	group
I64A: Ulen	     12
Rosewood	11
Flaming	   04
Karlsruhe	   12
Radium	   04 
Strathcona	   09 
Thiefriver	   09 
I65A:	l I
Ulen	12   12
Rosewood	11   11
Flaming	04 
Poppleton	04 
Karlsruhe	12   12
Radium	04 
Strathcona	09 
Thiefriver	09 
I66A: Vallers	 
Vallers, very cobbly	   09
Hamerly	   10 
Grimstad	1   10 
Mavie	09
Roliss, depressional	13
Strathcona	09
I67A:	i
Wheatville	10   10
Augsburg	09 
Glyndon	10   10
Foxlake	09 
Hilaire	02 
Ulen	   12 

Table 8.--Forage Suitability Groups--Continued

Map symbol and	Forage suitability			
component name	group			
I69A: Wyandotte	09			
Foxlake	09			
Espelie	01			
Clearwater, depressional	13			
Thiefriver	09			
Karlsruhe	12			
Syrene	11			
I70A: Strathcona	09			
Kratka	01			
Roliss	09			
Grimstad	10			
Mavie	09			
Rosewood	11			
Strathcona, depressional	13			
I71A: Berner, ponded	24			
Cathro, ponded	24			
Hamre	13			
Kratka	01			
Northwood	13			
Roliss	09			
Seelyeville, ponded	24			
I72A: Pelan	02			
Smiley	01			
Linveldt	02			
Kratka	01			
Strandquist	09			
Reiner	02			
Eckvoll	02			
'	•			

Table 8.--Forage Suitability Groups--Continued

Map symbol	Forage				
and	suitability				
component name	group				
I					
I73A:					
Boash	09				
Clearwater	01				
P-14	00				
Roliss	09				
Clearwater,					
depressional	13				
Kittson	02				
	- <del>-</del>				
Newfolden	02				
   174A:					
Urban land.					
Endoaquents.					
I75A:					
Radium	04				
  Sandberg	04				
	01				
Garborg	04				
   Oylen	08				
0,1011	00				
Flaming	04				
 	12				
Venlo	13				
   Hangaard	03				
Sioux	04				
M-W.					
Miscellaneous water					
w.					
Water					
Marei					

## Table 9.--Prime Farmland

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name)

Map symbol	Soil name						
3200A	Garnes fine sandy loam, Des Moines, 0 to 3 percent slopes						
3201A	Chilgren fine sandy loam, Des Moines, 0 to 2 percent slopes (where drained)						
3204A	Roliss loam, Des Moines, 0 to 2 percent slopes (where drained)						
I1A	Augsburg loam, 0 to 2 percent slopes (where drained)						
15A	Borup loam, 0 to 2 percent slopes (where drained)						
19A	Clearwater clay, 0 to 2 percent slopes (where drained)						
I13A	Espelie fine sandy loam, 0 to 2 percent slopes (where drained)						
117A	Foldahl fine sandy loam, 0 to 3 percent slopes						
120A	Foxlake loam, 0 to 2 percent slopes (where drained)						
122A	Glyndon loam, 0 to 2 percent slopes						
[24A	Grimstad fine sandy loam, 0 to 3 percent slopes						
126A	Hamerly loam, 0 to 2 percent slopes						
132A	Hilaire fine sandy loam, 0 to 3 percent slopes						
134A	Huot fine sandy loam, 0 to 3 percent slopes						
136A	Kittson loam, 0 to 3 percent slopes						
I38A	Kratka fine sandy loam, 0 to 2 percent slopes (where drained)						
139A	Linveldt fine sandy loam, 0 to 3 percent slopes						
144A	Newfolden loam, 0 to 3 percent slopes						
[50A	Reiner fine sandy loam, 0 to 3 percent slopes						
I51A	Reiner loamy fine sand, 0 to 3 percent slopes						
I52A	Reis-Clearwater complex, 0 to 2 percent slopes (where drained)						
I53A	Roliss loam, 0 to 2 percent slopes (where drained)						
[59A	Smiley loam, 0 to 2 percent slopes (where drained)						
163A	Thiefriver fine sandy loam, 0 to 2 percent slopes (where drained)						
166A	Vallers loam, 0 to 2 percent slopes (where drained)						
167A	Wheatville loam, 0 to 3 percent slopes						
[70A	Strathcona fine sandy loam, 0 to 2 percent slopes (where drained)						
[73A	Boash clay loam, 0 to 2 percent slopes (where drained)						

Table 10.--Windbreaks and Environmental Plantings

(Only the map units that include soils suitable for windbreaks and environmental plantings are listed. Absence of an entry indicates that trees generally do not grow to the given height)

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of				
component name	map unit	<8	8-15	16-25	26-35	>35
B200A: Garnes	     70   	  Peking cotoneaster,   redosier dogwood,   sargent crabapple	  American   cranberrybush,   American plum,   common lilac	  Blue spruce, eastern   arborvitae, eastern   redcedar, bur oak,   white spruce	  Norway spruce, paper   birch, eastern   white pine, green   ash, red pine	  Eastern cottonwood,  Siouxland  cottonwood
Chilgren	   13   	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac	  Eastern arborvitae,   black ash, white   spruce 	  Paper birch, green   ash, white willow 	  Silver maple,   eastern cottonwood   
Eckvoll	   5     	Peking cotoneaster,   redosier dogwood     	American plum,   common chokecherry       	Blue spruce, eastern   redcedar,   Manchurian   crabapple, Scotch   pine, bur oak,   white spruce	American basswood,   eastern white pine,   golden willow 	Silver maple,   eastern cottonwood   
Garnes, very stony	   5   	Peking cotoneaster,   redosier dogwood,   sargent crabapple	American   cranberrybush,   American plum,   common lilac	Eastern arborvitae,   Black Hills spruce,   Scotch pine, white   spruce	Paper birch, eastern   white pine, green   ash, red pine	Eastern cottonwood,   Siouxland   cottonwood
Grygla	   4   	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac 	  Eastern arborvitae,   Black Hills spruce,   black ash, white   spruce		  Silver maple,   Siouxland   cottonwood
Pelan	   3     	Peking cotoneaster,   redosier dogwood   	  American plum,   common chokecherry,   hedge cotoneaster,   common lilac,   silver buffaloberry	crabapple, bur oak,	  Green ash, Siberian   elm   	Silver maple,   imperial Carolina   poplar, eastern   cottonwood
B201A: Chilgren	   75     	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac 	  Eastern arborvitae,   black ash, white   spruce 	  Paper birch, green   ash, white willow   	  Silver maple,   eastern cottonwood   

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
B201A: Garnes	9	Peking cotoneaster,   redosier dogwood,   sargent crabapple	  American   cranberrybush,   American plum,   common lilac	  Blue spruce, eastern   arborvitae, eastern   redcedar, bur oak,   white spruce	   Norway spruce, paper   birch, eastern   white pine, green   ash, red pine	  Eastern cottonwood   Siouxland   cottonwood
Grygla	5	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac	  Eastern arborvitae,   Black Hills spruce,   black ash, white   spruce	  Paper birch, green   ash 	  Silver maple,   Siouxland   cottonwood
Grygla, depressional	5	 	 	 	 	 
Hamre	5	 	 	 	 	 
Pelan	1	  Peking cotoneaster,   redosier dogwood   	  American plum,   common chokecherry,   hedge cotoneaster,   common lilac,   silver buffaloberry	  Ponderosa pine,   Manchurian   crabapple, bur oak,   Russian-olive	  Green ash, Siberian   elm   	  Silver maple,   imperial Carolina   poplar, eastern   cottonwood
B202A:	     80	   	 	 	   	   
Hamre	8	 			 	 
Chilgren	3	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac	  Eastern arborvitae,   black ash, white   spruce	  Paper birch, green   ash, white willow   	  Silver maple,   eastern cottonwood   
Northwood	3	 		 	 	 
Berner	2	 	 	 	 	 
Grygla	2	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac	  Eastern arborvitae,   Black Hills spruce,   black ash, white   spruce		  Silver maple,   Siouxland   cottonwood
Seelyeville	2	 	 	 	 	 

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of				
component name	map unit	<8	8-15	16-25	26-35	>35
ļ				[		<u> </u>
B203A:		!	!	!	ļ.	!
Northwood	75					
Hamre	10					
  Grygla	7	  Nanking cherry,	  American	  Eastern arborvitae,	  Paper hirdh green	  Silver maple,
Giygia	,	Peking cotoneaster,	1	Black Hills spruce,		Siouxland
;		common ninebark,	common lilac	black ash, white	l asii	cottonwood
,		redosier dogwood	COMMON TITAE	spruce	!	i cocconwood
,		redosier dogwood	 	spruce	 	 
Berner	5					
Chilgren	3	  Nanking cherry,	  American	  Eastern arborvitae,	  Paper birch, green	  Silver maple,
- I	J	Peking cotoneaster,	1	black ash, white	ash, white willow	eastern cottonwood
;		common ninebark,	common lilac	spruce	asii, white willow	l eastern cottonwood
,		redosier dogwood	COMMON TITAE	Spruce	!	! !
,		redosier dogwood	 	1	 	 
B204A:		I I	! 	İ	I I	! [
Roliss	75	Redosier dogwood,	Common chokecherry,	Eastern arborvitae,	lGolden willow.	  Imperial Carolina
102222	, ,	sargent crabapple	common lilac	Black Hills spruce,		poplar, eastern
ļ		bargene crabappie	I	bur oak, Russian-	I DIDOLLIAN CLM	cottonwood,
;			! !	olive, white spruce	<u> </u>	Siouxland
,			! !	Olive, white spide	1	cottonwood
 		i i	 		i i	l
Grygla	8	Nanking cherry,	American	Eastern arborvitae,	Paper birch, green	  Silver maple,
1		Peking cotoneaster,	cranberrybush,	Black Hills spruce,		Siouxland
Ī		common ninebark,	common lilac	black ash, white	1	cottonwood
i		redosier dogwood		spruce		
j		İ	j	İ	İ	İ
Chilgren	5	Nanking cherry,	American	Eastern arborvitae,	Paper birch, green	Silver maple,
J		Peking cotoneaster,	cranberrybush,	black ash, white	ash, white willow	eastern cottonwood
J		common ninebark,	common lilac	spruce		
ļ.		redosier dogwood				
ļ						
Garnes	5	Peking cotoneaster,	American	-	Norway spruce, paper	
ļ		redosier dogwood,	cranberrybush,	arborvitae, eastern		Siouxland
ļ		sargent crabapple	American plum,	redcedar, bur oak,	white pine, green	cottonwood
ļ			common lilac	white spruce	ash, red pine	
  Roliss, depressional	5	 	 		 	 
KOIISS, depressional	5	 	<del></del>		<del></del>	<del></del>
ļ		!	!	!	!	!
Hamre	2					l

	I	1	Trees having predicted 20-year average height, in feet, of					
Map symbol and	Pct. of	İ						
component name	map unit	<8	8-15	16-25	26-35	>35		
	l	I			I			
B205A:				1	l			
Berner	80							
		l	l		l			
Northwood	7							
		1			l			
Grygla	5	Nanking cherry,	American	Eastern arborvitae,		Silver maple,		
		Peking cotoneaster,	cranberrybush,	Black Hills spruce,	ash	Siouxland		
		common ninebark,	common lilac	black ash, white		cottonwood		
		redosier dogwood	l	spruce	l			
Cathro	3							
		1			l			
Hamre	3							
						]		
Seelyeville	2	l		l	l	I		

Man sumbal and		Trees naving predicted 20-year average neight, in feet, or					
Map symbol and	Pct. of	   <8	8-15	16-25	l 26-35	>35	
component name	map unit		8-13	16-25	26-35	>35	
20052	!	1	1	] 	] !	 	
B205A:	l l 80	 	 	l l	l l	l I	
Berner	80					 	
Northwood	l l 7	 	 	l l	l l	l I	
NOT CHWOOD	, ,			 	 	 	
Grygla	l   5	Nanking cherry,	American	  Eastern arborvitae,	l  Paper birch.green	  Silver maple,	
0-75-0		Peking cotoneaster,	•	Black Hills spruce,		Siouxland	
	i	common ninebark,	common lilac	black ash, white	I	cottonwood	
	i	redosier dogwood	1	spruce	İ	I	
	i	i	i		İ	i	
Cathro	3	i	i	i	i	i	
	i	İ	İ	İ	İ	İ	
Hamre	3	j	j	i	j	j	
	İ	İ			İ	ĺ	
Seelyeville	2						
		I				l	
B206A:	[	I				l	
Hamre	80						
		Į.					
Chilgren	8	Nanking cherry,	American			Silver maple,	
	!	Peking cotoneaster,	•	black ash, white	ash, white willow	eastern cottonwood	
	!	common ninebark,	common lilac	spruce	<u> </u>	!	
	ļ	redosier dogwood	!			!	
No. 11 June 2 A	-	1		] 	] !		
Northwood	5						
Cathro	l   3	 	 	l 	l l	l I	
Cacino	] 3			 	 	 	
Grygla	1 2	Nanking cherry,	American	  Eastern arborvitae,	  Paper birch, green	  Silver maple,	
01/910	¦ -	Peking cotoneaster,	•	Black Hills spruce,		Siouxland	
	i	common ninebark,	common lilac	black ash, white	l	cottonwood	
	i	redosier dogwood	1	spruce	İ	I	
	i		i		İ		
Roliss	2	Redosier dogwood,	Common chokecherry,	Eastern arborvitae,	Golden willow,	  Imperial Carolina	
	i	sargent crabapple	common lilac	Black Hills spruce,	Siberian elm	poplar, eastern	
	İ	İ	İ	bur oak, Russian-	İ	cottonwood,	
	İ	İ	İ	olive, white spruce	İ	Siouxland	
	İ	İ	İ	İ	İ	cottonwood	
	I						
B207A:	1						
Pelan	70	Peking cotoneaster,	American plum,	Ponderosa pine,	Green ash, Siberian		
	[	redosier dogwood	common chokecherry,	Manchurian	elm	imperial Carolina	
	[		hedge cotoneaster,	crabapple, bur oak,		poplar, eastern	
	1		common lilac,	Russian-olive		cottonwood	
	ļ.	<u> </u>	silver buffaloberry			!	
	I	1					

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
B207A:   Chilgren	10	  Nanking cherry,  Peking cotoneaster,  common ninebark,  redosier dogwood	  American   cranberrybush,   common lilac	  -  Eastern arborvitae,   black ash, white   spruce	    Paper birch, green   ash, white willow 	    Silver maple,   eastern cottonwood		
   Garnes      	10	Peking cotoneaster,   redosier dogwood,   sargent crabapple	  American   cranberrybush,   American plum,   common lilac	 	  Norway spruce, paper   birch, eastern   white pine, green   ash, red pine	  Eastern cottonwood,   Siouxland   cottonwood		
Eckvoll        	5	  Peking cotoneaster,   redosier dogwood   	  American plum,   common chokecherry     	Blue spruce, eastern   redcedar,   Manchurian   crabapple, Scotch   pine, bur oak,   white spruce	  American basswood,   eastern white pine,   golden willow   	  Silver maple,   eastern cottonwood   		
Grygla      	5   5	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac	  Eastern arborvitae,   Black Hills spruce,   black ash, white   spruce		  Silver maple,   Siouxland   cottonwood		
B208A: Grygla      	75	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac	 	    Paper birch, green   ash   	  silver maple,   Siouxland   cottonwood		
Chilgren	10	   Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac	  Eastern arborvitae,   black ash, white   spruce 	  Paper birch, green   ash, white willow   	  Silver maple,   eastern cottonwood 		
Eckvoll	5	Peking cotoneaster,   redosier dogwood	  American plum,   common chokecherry     	Blue spruce, eastern   redcedar,   Manchurian   crabapple, Scotch   pine, bur oak,   white spruce	  American basswood,   eastern white pine,   golden willow   	Silver maple,   eastern cottonwood   		
Grygla, depressional	   5				   	 		
Northwood	5	 	 	 	   	   		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	ted 20-year average h	year average height, in feet, of			
component name	map unit	<8	8-15	16-25	26-35	>35
B210A:     Eckvoll  	70	  Peking cotoneaster,   redosier dogwood   	  American plum,   common chokecherry     	  Blue spruce, eastern   redcedar,   Manchurian   crabapple, Scotch   pine, bur oak,   white spruce	  American basswood,   eastern white pine,   golden willow 	  Silver maple,   eastern cottonwood   
Chilgren      	12	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac	  Eastern arborvitae,   black ash, white   spruce 	  Paper birch, green   ash, white willow   	  Silver maple,   eastern cottonwood 
Grygla      	8	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac 	  Eastern arborvitae,   Black Hills spruce,   black ash, white   spruce	  Paper birch, green   ash   	  Silver maple,   Siouxland   cottonwood 
Garnes    	7	Peking cotoneaster,   redosier dogwood,   sargent crabapple	American   cranberrybush,   American plum,   common lilac	Blue spruce, eastern arborvitae, eastern redcedar, bur oak, white spruce	Norway spruce, paper   birch, eastern   white pine, green   ash, red pine	Eastern cottonwood,   Siouxland   cottonwood
Pelan      	3	Peking cotoneaster,   redosier dogwood   	  American plum,   common chokecherry,   hedge cotoneaster,   common lilac,   silver buffaloberry	crabapple, bur oak,	  Green ash, Siberian   elm 	Silver maple,   imperial Carolina   poplar, eastern   cottonwood
B211A:			! 	 		
Berner, ponded	45		 		 	 
Cathro, ponded	45	 				 
Chilgren    	2	Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	American   cranberrybush,   common lilac	Eastern arborvitae,   black ash, white   spruce 	Paper birch, green ash, white willow	silver maple,   eastern cottonwood 
Grygla      	2	  Nanking cherry,   Peking cotoneaster,   common ninebark,   redosier dogwood	  American   cranberrybush,   common lilac 	  Eastern arborvitae,   Black Hills spruce,   black ash, white   spruce		Silver maple,   Siouxland   cottonwood 
Hamre  	2	 	 	 	 	 

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	   Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
B211A: Northwood	     2   2	 	 	 	 	 	
Seelyeville, ponded	4	 	 	 	 	 	
I1A:			l	l	l		
Augsburg	75     	Russian almond,   sandbar willow,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   silver buffaloberry	Black Hills spruce,   common hackberry   	Laurel willow, green   ash, robusta   cottonwood	Eastern cottonwood,   imperial Carolina   poplar 	
Borup	10     	Russian almond,   sandbar willow,   indigobush,   redosier dogwood	   Common chokecherry,   common lilac,   silver buffaloberry	black ash	Green ash, laurel   willow, robusta   cottonwood 	  Eastern cottonwood,   imperial Carolina   poplar 	
Foxlake	5           	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry	Common chokecherry,   common lilac,   eastern arborvitae   	Black Hills spruce,   blue spruce, common   hackberry, green   ash 	•	Imperial Carolina   poplar, eastern   cottonwood 	
Augsburg, depressional	   3	 	 	 	 	 	
Wheatville	   3       	Blueleaf   honeysuckle,   indigobush,   silverberry	   Siberian peashrub,   common chokecherry,   common lilac,   silver   buffaloberry,   eastern arborvitae,   eastern redcedar	bur oak, ponderosa   pine, common   hackberry, green   ash	  Laurel willow,   silver maple     	  Eastern cottonwood,   imperial Carolina   poplar   	
Glyndon	2         	Blueleaf   honeysuckle,   indigobush,   silverberry	Siberian peashrub,   common chokecherry,   common lilac,   silver   buffaloberry,   common lilac,   eastern arborvitae,   eastern redcedar	ponderosa pine, bur   oak, common   hackberry	Common hackberry,   green ash, laurel   willow, laurel   willow, silver   maple	  Imperial Carolina   poplar, eastern   cottonwood   	

imperial Carolina

poplar

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of				
component name	map unit	<8	8-15	16-25	26-35	>35
I1A:		I	l	l	l	
Espelie	1	Nanking cherry,	Amur maple, Siberian	•	Siberian elm, laurel	
	!	golden currant,	peashrub, common	crabapple, black	willow	eastern cottonwood
		redosier dogwood	lilac, American	ash, blue spruce,		
	 	 	plum, Manchurian   apricot, common	common hackberry	 	l i
	l I	 	chokecherry	 	 	 
	! I	! 	CHORECHETTY	! 		! 
Hattie	1	American plum,	Siberian peashrub,	Blue spruce, Black	Common hackberry,	Siberian elm,
	j	Russian almond,	late lilac,	Hills spruce, bur	green ash, American	eastern cottonwood,
	l	blueleaf	Manchurian	oak	basswood	imperial Carolina
		honeysuckle, common		l	l	poplar
	!	chokecherry, golden	!	!	<u> </u>	
!	  -	currant	 	 	 	 
I3A:	! 	 	 	 	 	 
Berner	80	i	i	i		
Northwood	7					
Kratka	l l 5	  American plum,	  Amur maple, Peking	  Manchurian apricot,	  Green ash. laurel	  Siouxland
	i	Nanking cherry,	cotoneaster, common			cottonwood,
	İ	Siberian peashrub,	chokecherry,	spruce, Black Hills	elm	imperial Carolina
	j	golden currant,	indigobush,	spruce, common	İ	poplar
	!	redosier dogwood	nannyberry	hackberry		
Hamre	   3	 	 	 	 	 
Strathcona	3	Siberian peashrub,	Common chokecherry,	Black Hills spruce,	Laurel willow,	Siouxland
		common lilac,	silver	common hackberry,	Siberian elm	cottonwood,
		redosier dogwood,	buffaloberry,	green ash		imperial Carolina
	l i	western sandcherry	eastern arborvitae	 	l	poplar
Seelyeville	   2 	   	   	   	   	   
I4A:	<u> </u>					
Berner	I 30	l	l	l	l	l

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I1A:	   	   	   	   	 	   
Espelie	1	Nanking cherry,	Amur maple, Siberian	Manchurian	Siberian elm, laurel	Carolina poplar,
	         	golden currant,   redosier dogwood     	peashrub, common   lilac, American   plum, Manchurian   apricot, common   chokecherry	crabapple, black ash, blue spruce, common hackberry	willow         	eastern cottonwood       
Hattie	j 1	American plum,	Siberian peashrub,	Blue spruce, Black	Common hackberry,	Siberian elm,
	         	Russian almond, blueleaf honeysuckle, common checkecherry, golden currant	late lilac,   Manchurian   crabapple   	Hills spruce, bur   oak   	green ash, American basswood	eastern cottonwood   imperial Carolina   poplar 
I3A:	i	 	 	İ	<u> </u>	 
Berner	80 	 	 	i	i	 
Northwood	7 	 	 	 	 	
Kratka	5         	American plum,    Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	Siouxland   cottonwood,   imperial Carolina   poplar
Hamre	3 	   	 	i I	i I	 
Strathcona	3       	Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	Common chokecherry,   silver   buffaloberry,   astern arborvitae	Black Hills spruce,   common hackberry,   green ash	Laurel willow,   Siberian elm   	Siouxland   cottonwood,   imperial Carolina   poplar
Seelyeville	   2 	 !				 !
I4A:	i I	! 	! 	! 	! 	! 
Berner	30   30					
Rosewood, depressional	   30 	 	 		 	 
Strathcona, depressional	   30 	 	 			
Rosewood	   4 	Siberian peashrub,   common lilac,	nannyberry, silver	Black Hills spruce,   black ash, common	•	Siouxland   cottonwood,

buffaloberry,

eastern arborvitae | ash

| hackberry, green

indigobush,

redosier dogwood

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
I4A:	     2	 	   	   	   	   	
Mavie	   2     	  Sandbar willow,   Siberian peashrub,   common lilac,   indigobush	  Common chokecherry,   late lilac, eastern   arborvitae, eastern   redcedar	Hills spruce,	  Laurel willow,   Siberian elm,   Siouxland   cottonwood	 	
Strathcona	2     	Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	Common chokecherry, silver buffaloberry, eastern arborvitae	Black Hills spruce, common hackberry, green ash	Laurel willow,   Siberian elm 	Siouxland   cottonwood,   imperial Carolina   poplar	
I5A:						İ	
Borup	75     	Russian almond,   sandbar willow,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   silver buffaloberry	Black Hills spruce,   black ash   	Green ash, laurel   willow, robusta   cottonwood	Eastern cottonwood,   imperial Carolina   poplar 	
Glyndon	9	Blueleaf   honeysuckle,   indigobush,   silverberry	Siberian peashrub, common chokecherry, common lilac, silver buffaloberry, common lilac, eastern arborvitae, eastern redcedar	Black Hills spruce, ponderosa pine, ponderosa pine, bur oak, common hackberry	Common hackberry,   green ash, laurel   willow, laurel   willow, silver   maple	Imperial Carolina   poplar, eastern   cottonwood	
Rosewood	   8   	Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   black ash, common   hackberry, green   ash	  Laurel willow,   Siberian elm 	  Siouxland   cottonwood,   imperial Carolina   poplar	
Augsburg	5     	Russian almond,   sandbar willow,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   silver buffaloberry	Black Hills spruce,   common hackberry	Laurel willow, green ash, robusta cottonwood	Eastern cottonwood,   imperial Carolina   poplar	
Augsburg, depressional	   3 	   	   	   	   	   	
I7A: Bowstring	   45	 	 	 	 	 	
Fluvaquents	   45 	   	   	 	   	   	

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	   Pct. of	 	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35		
I7A: Hapludolls	     5	 		 	 	    dibanian alm		
napiudolis	3       	Nanking cherry,   golden currant,   indigobush 	American plum,   Siberian peashrub,   common lilac,   eastern redcedar	Siberian crabapple,   Russian-olive, bur   oak, ponderosa   pine, blue spruce	Green ash,   honeylocust   	Siberian elm,   eastern cottonwood   imperial Carolina   poplar, silver   maple		
Water	   5 			 				
I8A:	İ	İ	İ	İ	İ			
Cathro	80 	 		 	 			
Hamre	   8 							
Northwood	   3 	 		 	 			
Roliss	   3       	   Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	Laurel willow,   Siberian elm   	Imperial Carolina   poplar, eastern   cottonwood		
Berner	2 		j		 	j		
Kratka	   2       	   American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	   Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	Siouxland   cottonwood,   imperial Carolina   poplar		
Seelyeville	2   2	i I	i I	i I	i I	i		
19A:			[					
Clearwater	80             	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry	Common chokecherry,   common lilac,   cotoneaster	Black Hills spruce,   blue spruce, common   hackberry, green   ash 	Laurel willow,   Siberian elm	Imperial Carolina		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
I9A: Clearwater, very cobbly	   5         	Nanking cherry,   Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   golden currant,   redosier dogwood,   silver buffaloberry	  Common chokecherry,   common lilac,   cotoneaster 	  Black Hills spruce,   blue spruce, common   hackberry, green   ash 	·	  Imperial Carolina   poplar, eastern   cottonwood   	
Reis	   5       	Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   redosier dogwood	Siberian peashrub,   common chokecherry,   common lilac,   cotoneaster, common   chokecherry	Russian-olive, blue	Siberian elm	  Golden willow,   imperial Carolina   poplar, eastern   cottonwood 	
Clearwater, depressional	3						
Espelie	3       	Nanking cherry,   golden currant,   redosier dogwood	Amur maple, Siberian   peashrub, common   lilac, American   plum, Manchurian   apricot, common   chokecherry	Manchurian   crabapple, black   ash, blue spruce,   common hackberry	Siberian elm, laurel   willow    -	Carolina poplar,   eastern cottonwood     	
Foxlake	2           	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry	  Common chokecherry,   common lilac,   eastern arborvitae	  Black Hills spruce,   blue spruce, common   hackberry, green   ash 	Laurel willow, Siberian elm	   Imperial Carolina   poplar, eastern   cottonwood   	
Hattie	1       	American plum,   Russian almond,   blueleaf   honeysuckle, common   chokecherry, golden   currant		Blue spruce, Black   Hills spruce, bur   oak	Common hackberry, green ash, American basswood	Siberian elm,   eastern cottonwood   imperial Carolina   poplar 	
Huot	   1     	  Indigobush, sargent   crabapple,   silverberry 	  Siberian peashrub,   common chokecherry,   common lilac,   eastern arborvitae,   eastern redcedar	  Ponderosa pine,   black ash, bur oak     	  Common hackberry,   green ash   	  Siberian elm,   eastern cottonwood     	

		Trees having predicted 20-year average height, in feet, of					
Map symbol and	Pct. of map unit	l l <8	8-15	16-25	26-35	>35	
component name	map unit		0-13	16-25		735	
I11A: Deerwood	     85	   	   	   	   	   	
Rosewood	6	Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   black ash, common   hackberry, green   ash	Laurel willow,   Siberian elm 	  Siouxland   cottonwood,   imperial Carolina   poplar	
Markey	3	 	 	 	 	 	
Strathcona	2	  Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	   Common chokecherry,   silver   buffaloberry,   eastern arborvitae	  Black Hills spruce,   common hackberry,   green ash 	  Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina   poplar	
Syrene	2	Siberian peashrub,   redosier dogwood,   western sandcherry 	Common chokecherry,   late lilac, eastern   arborvitae,   nannyberry, silver   buffaloberry	Black Hills spruce,   common hackberry,   green ash 	Laurel willow,   Siberian elm	Siouxland   cottonwood,   imperial Carolina   poplar 	
Venlo	2	 	 	 			
I12A: Eckvoll	70	Peking cotoneaster,   Saskatoon   serviceberry,   silver   buffaloberry,   western sandcherry	Amur maple, Siberian peashrub, nannyberry, common chokecherry, eastern redcedar	Manchurian   crabapple, Black   Hills spruce,   Scotch pine,   Siberian elm, bur   oak, common   hackberry, green   ash	Red maple, green ash, paper birch	  Imperial Carolina   poplar, Siouxland   cottonwood 	
Kratka	8	American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	  Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	   Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar 	

Table 10.--Windbreaks and Environmental Plantings--Continued

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
I12A: Smiley	7	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	Manchurian apricot,   Manchurian   crabapple, blue   spruce	Green ash, quaking aspen, American basswood	  siberian elm, laurel  willow, eastern  cottonwood, robusta  cottonwood 	
Linveldt	5	Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry	Siberian peashrub,   common chokecherry,   common lilac,   American   cranberrybush, Amur   maple, eastern   redcedar	Scotch pine, bur   oak, common	Imperial Carolina   poplar, robusta   cottonwood	Siberian elm,   eastern cottonwood   	
Reiner	5	Russian almond,   Saskatoon   serviceberry,   golden currant,   silverberry	American   cranberrybush,   American plum,   common chokecherry,   eastern redcedar	Black Hills spruce,   Manchurian apricot,   blue spruce, bur   oak		Siberian elm, sugar   maple, eastern   cottonwood	
Foldahl	2	Peking cotoneaster,   Saskatoon   serviceberry,   western sandcherry	Amur maple, Siberian   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar,   late lilac,   nannyberry	Scotch pine, red   maple	  Common hackberry,   paper birch, silver   maple, green ash   	  Siouxland   cottonwood,   imperial Carolina   poplar   	
Pelan	2	  Peking cotoneaster,   redosier dogwood   	American plum,   common chokecherry,   hedge cotoneaster,   common lilac,   silver buffaloberry	crabapple, bur oak, Russian-olive	  Green ash, Siberian   elm   	Silver maple,   imperial Carolina   poplar, eastern   cottonwood	
Poppleton	1	   Peking cotoneaster,   blueleaf   honeysuckle, silver   buffaloberry,   silverberry,   western sandcherry	juniper, Siberian	  Black Hills spruce,   Scotch pine       	  Red maple, green ash           	  Siouxland   cottonwood,   imperial Carolina   poplar   	

Table	TO	Windbreaks	and	Environmental	PlantingsContinued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I13A: Espelie	75	  Nanking cherry,   golden currant,   redosier dogwood   	Amur maple, Siberian peashrub, common lilac, American plum, Manchurian apricot, common chokecherry	  Manchurian   crabapple, black   ash, blue spruce,   common hackberry	  Siberian elm, laurel   willow     	  Carolina poplar,   eastern cottonwood     		
Foxlake	8	Nanking cherry,   Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   golden currant,   redosier dogwood,   silver buffaloberry	common lilac,   eastern arborvitae     	   Black Hills spruce,   blue spruce, common   hackberry, green   ash 		  Imperial Carolina   poplar, eastern   cottonwood   		
Hilaire	7	  American plum,   Peking cotoneaster,   Saskatoon   serviceberry,   western sandcherry	   Saskatoon   serviceberry,   Siberian peashrub,   Amur maple, common   chokecherry,   eastern redcedar,   nannyberry	   Manchurian   crabapple, Black   Hills spruce,   Scotch pine, bur   oak, paper birch	  Common hackberry,   green ash     	  Siberian elm,  Siouxland  cottonwood,  imperial Carolina  poplar		
Clearwater, depressional	5	 	 	 	 	 		
Thiefriver	5	  Siberian peashrub,   common lilac,   redosier dogwood	  Common chokecherry,   nannyberry, eastern   arborvitae 	  Black Hills spruce,   black ash, green   ash	  Laurel willow,   Siberian elm   	  Eastern cottonwood,   imperial Carolina   poplar 		
I15A: Flaming	70	Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	  Red maple, green   ash, Siouxland   cottonwood 	             		
Garborg	10	Nanking cherry,   Peking cotoneaster,   blueleaf   honeysuckle,   redosier dogwood	American   cranberrybush,   Rocky Mountain   juniper, common   lilac, peashrub,   common chokecherry,   eastern redcedar	   Siberian crabapple,   blue spruce, Black   Hills spruce,   Scotch pine, common   hackberry	willow	  Eastern cottonwood,   imperial Carolina   poplar   		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I15A: Hamar	5	  Nanking cherry,  Siberian peashrub,  redosier dogwood,  silver buffaloberry	American   cranberrybush,   common chokecherry,   common lilac	   Siberian crabapple,   Black Hills spruce,   blue spruce, black   ash, common   hackberry		  Eastern cottonwood   imperial Carolina   poplar 		
Ulen	5	Amur honeysuckle, indigobush	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern redcedar	Black Hills spruce, bur oak, ponderosa pine, common hackberry	  Green ash, laurel   willow     	Carolina poplar,   Siberian elm,   Siouxland   cottonwood		
Poppleton	3	Peking cotoneaster,   blueleaf   honeysuckle, silver   buffaloberry,   silverberry,   western sandcherry	Rocky Mountain   juniper, Siberian   peashrub, late   lilac, common   chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine     	  Red maple, green ash         	  Siouxland   cottonwood,   imperial Carolina   poplar 		
Sandberg	3	  Silver buffaloberry,   western sandcherry 	  Russian-olive,   common chokecherry,   peashrub, late   lilac	  Eastern redcedar,   Scotch pine   	Green ash, silver   maple, Carolina   poplar, Siouxland   cottonwood	     		
Foldahl	2	  Peking cotoneaster,   Saskatoon   serviceberry,   western sandcherry	Amur maple, Siberian peashrub, silver buffaloberry, common chokecherry, eastern redcedar, late lilac, nannyberry	Scotch pine, red   maple	  Common hackberry,   paper birch, silver   maple, green ash   	  Siouxland   cottonwood,   imperial Carolina   poplar   		
Radium	2	  Sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry 	  Siberian peashrub,   common chokecherry,   late lilac,   nannyberry 	  Black Hills spruce,   Russian-olive,   eastern arborvitae,   eastern redcedar,   Scotch pine, common   hackberry	ash, laurel willow	           		
I16F: Fluvaquents	55	   	   	   	   	   		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	   Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I16F: Hapludolls	   25     	  Nanking cherry,   golden currant,   indigobush	  American plum,   Siberian peashrub,   common lilac,   eastern redcedar	  Siberian crabapple,  Russian-olive, bur  oak, ponderosa  pine, blue spruce	  Green ash,   honeylocust   	  Siberian elm,   eastern cottonwood,  imperial Carolina   poplar, silver   maple		
Hapludalfs	   7	 	 	 	 	 		
Fairdale	   5       	Peking cotoneaster,   silver   buffaloberry,   silverberry	American plum,   peashrub, common   chokecherry,   eastern arborvitae,   eastern redcedar,   ponderosa pine	  Black Hills spruce,   black ash, paper   birch, common   hackberry	  Green ash, laurel   willow, quaking   aspen 	American basswood,   eastern cottonwood 		
Water	   5 	 	 	 	 			
Bowstring	   2 				 !			
Rauville	   1							
I17A: Foldahl	   75                 	  Saskatoon   serviceberry,   blueleaf   honeysuckle,   indigobush,   silverberry,   western sandcherry	Amur maple, Peking   cotoneaster,   Siberian peashrub,   nannyberry, silver   buffaloberry,   common chokecherry,   common lilac,   eastern arborvitae,   eastern redcedar,   late lilac,   nannyberry	i	  Paper birch, common   hackberry, green   ash, silver maple   	  Imperial Carolina   poplar, cottonwood       		
Kratka	10       	American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	Siouxland   cottonwood,   imperial Carolina   poplar		
Roliss	   5     	  Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood 	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,   Siberian elm     	Imperial Carolina   poplar, eastern   cottonwood		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I17A: Flaming	4	  Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain juniper, nannyberry, peashrub, silver buffaloberry, common chokecherry, eastern redcedar	Scotch pine,   ponderosa pine 	  Red maple, green   ash, Siouxland   cottonwood   	 		
Grimstad	2	  Blueleaf   honeysuckle,   indigobush,   silverberry	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   black ash,   ponderosa pine, bur   oak	green ash, laurel	  Eastern cottonwood   imperial Carolina   poplar 		
Linveldt	2	  Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry	Siberian peashrub,   common chokecherry,   common lilac,   American   cranberrybush, Amur   maple, eastern   redcedar	Russian-olive,   Scotch pine, bur   oak, common	  Imperial Carolina   poplar, robusta   cottonwood 	  Siberian elm,   eastern cottonwood       		
Eckvoll	1	Peking cotoneaster,   Saskatoon   serviceberry,   silver   buffaloberry,   western sandcherry	Amur maple, Siberian   peashrub,   nannyberry, common   chokecherry,   eastern redcedar	Manchurian   crabapple, Black   Hills spruce,   Scotch pine,   Siberian elm, bur   oak, common   hackberry, green   ash	Red maple, green   ash, paper birch       	  Imperial Carolina   poplar, Siouxland   cottonwood   		
Strathcona	1	  Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	Common chokecherry,   silver   buffaloberry,   eastern arborvitae	  Black Hills spruce,   common hackberry,   green ash 	  Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina   poplar		
I18A: Foldahl	75	  Peking cotoneaster,   Saskatoon   serviceberry,   western sandcherry	Amur maple, Siberian   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar,   late lilac,   nannyberry	Scotch pine, red   maple	  Common hackberry,   paper birch, silver   maple, green ash   	  Siouxland   cottonwood,   imperial Carolina   poplar   		

Map symbol and	Pct. of	<u> </u>	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I18A: Kratka	10	American plum, Nanking cherry, Siberian peashrub, golden currant, redosier dogwood	  Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	  Manchurian apricot,  Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar
Roliss	5	  Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,   Siberian elm   	Imperial Carolina   poplar, eastern   cottonwood
Flaming	4	   Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	  Red maple, green   ash, Siouxland   cottonwood   	         
Grimstad	2	Blueleaf   honeysuckle,   indigobush,   silverberry	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   black ash,   ponderosa pine, bur   oak 	green ash, laurel	  Eastern cottonwood,   imperial Carolina   poplar 
Linveldt	2	  Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry	   Siberian peashrub,   common chokecherry,   common lilac,   American   cranberrybush, Amur   maple, eastern   redcedar	Russian-olive,   Scotch pine, bur   oak, common	  Imperial Carolina   poplar, robusta   cottonwood   	Siberian elm,  eastern cottonwood   
Eckvoll	1	Peking cotoneaster,   Saskatoon   serviceberry,   silver   buffaloberry,   western sandcherry	Amur maple, Siberian   peashrub,   nannyberry, common   chokecherry,   eastern redcedar	Manchurian   crabapple, Black   Hills spruce,   Scotch pine,   Siberian elm, bur   oak, common   hackberry, green   ash	  Red maple, green   ash, paper birch       	Imperial Carolina   poplar, Siouxland   cottonwood

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and component name	   Pct. of	Trees having predicted 20-year average height, in feet, of						
	map unit	<8	8-15	16-25	26-35	>35		
I18A: Strathcona	 	  Siberian peashrub,  common lilac,  redosier dogwood,  western sandcherry	Common chokecherry,   silver   buffaloberry,   eastern arborvitae	  Black Hills spruce,   common hackberry,   green ash	  Laurel willow,   Siberian elm   	    Siouxland   cottonwood,   imperial Carolina   poplar		
I19A:	i I	! 	i	İ	! 	! 		
Foxhome	65         	Blueleaf   honeysuckle,   eastern redcedar,   hedge cotoneaster,   peashrub, silver   buffaloberry,   western sandcherry	Amur maple, common   chokecherry,   eastern arborvitae,   eastern redcedar,   nannyberry	Scotch pine, bur   oak, ponderosa pine         	Siberian elm,   eastern cottonwood,   green ash   	             		
Kittson	10       	Nanking cherry,   Saskatoon   serviceberry,   golden currant,   silverberry	American   cranberrybush,   American plum,   Siberian peashrub,   eastern arborvitae	Nannyberry,   Manchurian apricot,   Manchurian   crabapple, Black   Hills spruce, blue   spruce, bur oak	American basswood,   green ash, robusta   cottonwood 	Red maple, eastern   cottonwood,   imperial Carolina   poplar 		
Strandquist	   10     	  Siberian peashrub,   common lilac,   redosier dogwood,   silverberry,   western sandcherry	  Buffaloberry, common   chokecherry, late   lilac, eastern   arborvitae, eastern   redcedar,   nannyberry	  Black Hills spruce,   Russian-olive,   black ash, common   hackberry, green   ash	Laurel willow,   Siberian elm	  Siouxland   cottonwood,   imperial Carolina   poplar 		
Foldahl	   5             	   Saskatoon   serviceberry,   blueleaf   honeysuckle,   indigobush,   silverberry,   western sandcherry	Amur maple, Peking   cotoneaster,   siberian peashrub,   nannyberry, silver   buffaloberry,   common chokecherry,   common lilac,   eastern arborvitae,   eastern redcedar,   late lilac,   nannyberry	į	  Paper birch, common   hackberry, green   ash, silver maple   	  Imperial Carolina   poplar, cottonwoo               		

	 I	 I	Troop harring nording	ted 20-year average h	oight in fact of	
Map symbol and	   Pct. of	 	Trees naving predic	ced 20-year average no	eight, in reet, or	
component name	map unit	<8	8-15	16-25	26-35	>35
I19A: Grimstad	5	  Blueleaf   honeysuckle,   indigobush,   silverberry	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,	  Black Hills spruce,   black ash,   ponderosa pine, bur   oak	  Common hackberry,  green ash, laurel  willow, red maple	 
Roliss	   3   	  Sandbar willow,  Siberian peashrub,  indigobush,  redosier dogwood	eastern redcedar    Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,  Siberian elm   	  Imperial Carolina   poplar, eastern   cottonwood 
Mavie	   2   	  Sandbar willow,   Siberian peashrub,   common lilac,   indigobush	  Common chokecherry,   late lilac, eastern   arborvitae, eastern   redcedar	Hills spruce,	  Laurel willow,   Siberian elm,   Siouxland   cottonwood	     
I20A: Foxlake	75   	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry		  Black Hills spruce,   blue spruce, common   hackberry, green   ash 		  Imperial Carolina   poplar, eastern   cottonwood 
Clearwater	5   	Nanking cherry,   Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   golden currant,   redosier dogwood,   silver buffaloberry	Common chokecherry,   common lilac,   cotoneaster	  Black Hills spruce,   blue spruce, common   hackberry, green   ash 	•	Imperial Carolina   poplar, eastern   cottonwood
Foxlake, very cobbly	   5       	  Nanking cherry,   Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   golden currant,   redosier dogwood,   silver buffaloberry	Common chokecherry,   common lilac,   eastern arborvitae	  Black Hills spruce,   blue spruce, common   hackberry, green   ash 		Imperial Carolina   poplar, eastern   cottonwood

Table 10.--Windbreaks and Environmental Plantings--Continued

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I20A: Augsburg	3	  Russian almond,   sandbar willow,   indigobush,   redosier dogwood	  Common chokecherry,  common lilac,  silver buffaloberry	    Black Hills spruce,   common hackberry   	Laurel willow, green ash, robusta cottonwood	    Eastern cottonwood,   imperial Carolina   poplar 		
Clearwater, depressional	3	 	 	 	 	 		
Espelie	3	Nanking cherry,   golden currant,   redosier dogwood 	Amur maple, Siberian   peashrub, common   lilac, American   plum, Manchurian   apricot, common   chokecherry	Manchurian   crabapple, black   ash, blue spruce,   common hackberry	  Siberian elm, laurel   willow     	  Carolina poplar,   eastern cottonwood   		
Hilaire	2	  American plum,   Peking cotoneaster,   Saskatoon   serviceberry,   western sandcherry	   Saskatoon   serviceberry,   Siberian peashrub,   Amur maple, common   chokecherry,   eastern redcedar,   nannyberry	  Manchurian   crabapple, Black   Hills spruce,   Scotch pine, bur   oak, paper birch	  Common hackberry,   green ash     	  Siberian elm,  Siouxland  cottonwood,  imperial Carolina  poplar		
Reis	2	Russian almond, Saskatoon serviceberry, Siberian peashrub, redosier dogwood	  Siberian peashrub,   common chokecherry,   common lilac,   cotoneaster, common   chokecherry	Russian-olive, blue	Siberian elm	  Golden willow,   imperial Carolina   poplar, eastern   cottonwood 		
Wheatville	2	  Blueleaf   honeysuckle,   indigobush,   silverberry 	Siberian peashrub,   common chokecherry,   common lilac,   silver   buffaloberry,   eastern arborvitae,   eastern redcedar	pine, common   hackberry, green   ash		  Eastern cottonwood,   imperial Carolina   poplar 		
I22A: Glyndon	75	  Blueleaf   honeysuckle,   indigobush,   silverberry 	siberian peashrub,   common chokecherry,   silver   buffaloberry,   common lilac,   eastern arborvitae,   eastern redcedar	oak		  Carolina poplar,   cottonwood   		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I22A: Borup	     10   	  Russian almond,   sandbar willow,   indigobush,   redosier dogwood	  Common chokecherry,  common lilac,  silver buffaloberry	black ash	  Green ash, laurel  willow, robusta   cottonwood	  Eastern cottonwood,   imperial Carolina   poplar 		
Augsburg	   5   	Russian almond,   sandbar willow,   indigobush,   redosier dogwood	  Common chokecherry,   common lilac,   silver buffaloberry	common hackberry	Laurel willow, green ash, robusta cottonwood	  Eastern cottonwood,   imperial Carolina   poplar 		
Ulen	   5       	Amur honeysuckle,   indigobush 		  Black Hills spruce,   bur oak, ponderosa   pine, common   hackberry	  Green ash, laurel   willow   	  Carolina poplar,   Siberian elm,   Siouxland   cottonwood		
Wheatville	   3       	  Blueleaf   honeysuckle,   indigobush,   silverberry   	   Siberian peashrub,   common chokecherry,   common lilac,   silver   buffaloberry,   eastern arborvitae,   eastern redcedar	Black Hills spruce,   bur oak, ponderosa   pine, common   hackberry, green   ash	  Laurel willow,   silver maple     	  Eastern cottonwood,   imperial Carolina   poplar   		
Flaming	2           	Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	Red maple, green ash, Siouxland cottonwood	             		
I24A: Grimstad	   70       	  Blueleaf   honeysuckle,   indigobush,   silverberry	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,   eastern redcedar	black ash,	  Common hackberry,   green ash, laurel   willow, red maple 	  Eastern cottonwood,   imperial Carolina   poplar 		
Strathcona	   12     	  Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	  Common chokecherry,   silver   buffaloberry,   eastern arborvitae	  Black Hills spruce,   common hackberry,   green ash 	  Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina   poplar		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I24A: Foldahl	   5             	   saskatoon   serviceberry,   blueleaf   honeysuckle,   indigobush,   silverberry,   western sandcherry	Amur maple, Peking cotoneaster, Siberian peashrub, nannyberry, silver buffaloberry, common chokecherry, common lilac, eastern arborvitae, eastern redcedar, late lilac, nannyberry	i	  Paper birch, common   hackberry, green   ash, silver maple   	   Imperial Carolina   poplar, cottonwood     
Hamerly	   5     	Russian almond, Saskatoon serviceberry, blueleaf honeysuckle, indigobush	Arnold Hawthorn,   Siberian peashrub,   common lilac,   silver   buffaloberry,   eastern redcedar	  Blue spruce, bur   oak, ponderosa pine     	  Common hackberry,   green ash, laurel   willow   	Siberian elm,   eastern cottonwood   
Foxhome	2       	Blueleaf   honeysuckle,   eastern redcedar,   hedge cotoneaster,   peashrub, silver   buffaloberry,   western sandcherry	  Amur maple, common   chokecherry,   eastern arborvitae,   eastern redcedar,   nannyberry	  Scotch pine, bur   oak, ponderosa pine       	  Siberian elm,   eastern cottonwood,   green ash   	       
Karlsruhe	   2     	  Common lilac, silver   buffaloberry,   silverberry	  Peashrub, common   chokecherry,   eastern arborvitae,   eastern redcedar	  Black Hills spruce,   ponderosa pine,   Siberian elm, green   ash	silver maple	  Siouxland   cottonwood,   imperial Carolina   poplar
Mavie	   2   	   Sandbar willow,   Siberian peashrub,   common lilac,   indigobush	  Common chokecherry,   late lilac, eastern   arborvitae, eastern   redcedar	Hills spruce,	Laurel willow,   Siberian elm,   Siouxland   cottonwood	     
Ulen	2       	Amur honeysuckle,   indigobush           	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern redcedar	Black Hills spruce,   bur oak, ponderosa   pine, common   hackberry	  Green ash, laurel   willow         	Carolina poplar,   Siberian elm,   Siouxland   cottonwood

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	   Pct. of     map unit	Trees having predicted 20-year average height, in feet, of					
component name		<8	8-15	16-25	26-35	>35	
I25A: Hamar	75	  Nanking cherry,  Siberian peashrub,  redosier dogwood,  silver buffaloberry	  American   cranberrybush,   common chokecherry,   common lilac	  Siberian crabapple,  Black Hills spruce,  blue spruce, black  ash, common  hackberry	•	  Eastern cottonwood,  imperial Carolina  poplar 	
Garborg	10	  Nanking cherry,   Peking cotoneaster,   blueleaf   honeysuckle,   redosier dogwood	American   cranberrybush,   Rocky Mountain   juniper, common   lilac, peashrub,   common chokecherry,   eastern redcedar	   Siberian crabapple,   blue spruce, Black   Hills spruce,   Scotch pine, common   hackberry	willow	  Eastern cottonwood,   imperial Carolina   poplar   	
Rosewood	7   	Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   black ash, common   hackberry, green   ash	  Laurel willow,   Siberian elm   	Siouxland  cottonwood,  imperial Carolina  poplar	
Venlo	3	 		 	 		
Flaming	2	   Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	  Red maple, green   ash, Siouxland   cottonwood   	           	
Hangaard	2	Peking cotoneaster,   sandbar willow,   Siberian peashrub,   redosier dogwood,   western sandcherry	  Amur maple, common   chokecherry   	Black Hills spruce,   Scotch pine, black   ash, common   hackberry	  Green ash, laurel   willow, silver   maple 	Siberian elm,  Siouxland  cottonwood,  imperial Carolina  poplar	
Kratka	1	  American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	  Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar 	

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35		
	75	  Russian almond,   Saskatoon   serviceberry,   blueleaf   honeysuckle,   indigobush	  Arnold Hawthorn,   Siberian peashrub,   common lilac,   silver   buffaloberry,   eastern redcedar	  Blue spruce, bur   oak, ponderosa pine   	  Common hackberry,  green ash, laurel  willow 	  Siberian elm,   eastern cottonwood     		
Vallers      	12	  Russian almond,   sandbar willow,   Siberian peashrub,   indigobush	  Common chokecherry,   common lilac,   eastern redcedar	Black Hills spruce,   blue spruce, green   ash, common   hackberry	Laurel willow, quaking aspen	  Imperial Carolina   poplar, eastern   cottonwood		
Foxhome  	3	Blueleaf   honeysuckle,   eastern redcedar,   hedge cotoneaster,   peashrub, silver   buffaloberry,   western sandcherry	  Amur maple, common   chokecherry,   eastern arborvitae,   eastern redcedar,   nannyberry	  Scotch pine, bur   oak, ponderosa pine       	Siberian elm,   eastern cottonwood,   green ash 	         		
Grimstad        	3	Blueleaf   honeysuckle,   indigobush,   silverberry	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   black ash,   ponderosa pine, bur   oak	green ash, laurel	Eastern cottonwood,   imperial Carolina   poplar 		
Hamerly, very cobbly        	3	Russian almond,   Saskatoon   serviceberry,   blueleaf   honeysuckle,   indigobush	Arnold Hawthorn,   Siberian peashrub,   common lilac,   silver   buffaloberry,   eastern redcedar	  Blue spruce, bur   oak, ponderosa pine     	  Common hackberry,   green ash, laurel   willow 	  Siberian elm,   eastern cottonwood     		
Strathcona	3	Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	Common chokecherry,   silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   common hackberry,   green ash	Laurel willow,   Siberian elm	  Siouxland   cottonwood,   imperial Carolina   poplar		
Roliss, depressional	1							
I27A:     Hamre	80	 	 	 		 		
   Northwood	5	 	 	 	 	 		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I27A: Roliss	5	  Sandbar willow,  Siberian peashrub,  indigobush,  redosier dogwood	  Common chokecherry,  common lilac,  cotoneaster,  eastern arborvitae	  Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,   Siberian elm   	  Imperial Carolina   poplar, eastern   cottonwood 		
Smiley	5	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce		   Siberian elm, laurel   willow, eastern   cottonwood, robusta   cottonwood 		
Cathro	3							
Kratka	2	   American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	  Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar 		
I32A: Hilaire	     75	American plum,	    Saskatoon	    Manchurian	Common hackberry,	    Siberian elm,		
		Peking cotoneaster, Saskatoon serviceberry, western sandcherry	1	crabapple, Black Hills spruce, Scotch pine, bur oak, paper birch	green ash	Siouxland   cottonwood,   imperial Carolina   poplar		
Espelie	12	  Nanking cherry,   golden currant,   redosier dogwood   	  Amur maple, Siberian   peashrub, common   lilac, American   plum, Manchurian   apricot, common   chokecherry	  Manchurian   crabapple, black   ash, blue spruce,   common hackberry	  Siberian elm, laurel   willow       	  Carolina poplar,   eastern cottonwood     		
Huot	5	  Indigobush, sargent   crabapple,   silverberry   	   Siberian peashrub,   common chokecherry,   common lilac,   eastern arborvitae,   eastern redcedar	  Ponderosa pine,   black ash, bur oak     	  Common hackberry,   green ash   	  Siberian elm,   eastern cottonwood     		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35			
I32A: Flaming	2	  Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	  Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	  Red maple, green   ash, Siouxland   cottonwood   	 			
Foxlake	2	Nanking cherry,   Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   golden currant,   redosier dogwood,   silver buffaloberry	common lilac, eastern arborvitae	   Black Hills spruce,   blue spruce, common   hackberry, green   ash 		  Imperial Carolina   poplar, eastern   cottonwood 			
Wheatville	2	  Blueleaf   honeysuckle,   indigobush,   silverberry 		Black Hills spruce,   bur oak, ponderosa   pine, common   hackberry, green   ash	Laurel willow,     silver maple	  Eastern cottonwood,   imperial Carolina   poplar   			
Thiefriver	1	  Siberian peashrub,   common lilac,   redosier dogwood	  Common chokecherry,   nannyberry, eastern   arborvitae		  Laurel willow,   Siberian elm 	  Eastern cottonwood,   imperial Carolina   poplar			
Wyandotte	1	Siberian peashrub,   silverberry,   western sandcherry 	Common chokecherry,   common lilac,   silver   buffaloberry,   eastern redcedar	   Black Hills spruce,   eastern arborvitae,   ponderosa pine   		       			
I34A:		İ	į			į			
Huot	75   	Indigobush, sargent   crabapple,   silverberry 	Siberian peashrub,   common chokecherry,   common lilac,   eastern arborvitae,   eastern redcedar	Ponderosa pine,   black ash, bur oak   	Common hackberry,   green ash   	Siberian elm,   eastern cottonwood   			
Thiefriver	12	  Siberian peashrub,   common lilac,   redosier dogwood	  Common chokecherry,   nannyberry, eastern   arborvitae 	  Black Hills spruce,   black ash, green   ash 	  Laurel willow,   Siberian elm   	  Eastern cottonwood,   imperial Carolina   poplar 			

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I34A: Hilaire	   5       	  American plum,   Peking cotoneaster,   Saskatoon   serviceberry,   western sandcherry	  Saskatoon  serviceberry,  Siberian peashrub,  Amur maple, common  chokecherry,  eastern redcedar,  nannyberry	  Manchurian   crabapple, Black   Hills spruce,   Scotch pine, bur   oak, paper birch	  Common hackberry,  green ash   	  Siberian elm,  Siouxland  cottonwood,  imperial Carolina  poplar
Flaming	3         	  Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	   Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	  Red maple, green   ash, Siouxland   cottonwood   	           
Foxlake	3	Nanking cherry,   Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   golden currant,   redosier dogwood,   silver buffaloberry	common lilac, eastern arborvitae	  Black Hills spruce,   blue spruce, common   hackberry, green   ash 	•	  Imperial Carolina   poplar, eastern   cottonwood   
Ulen	   2       	  Amur honeysuckle,   indigobush       	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern redcedar	bur oak, ponderosa	  Green ash, laurel   willow       	Carolina poplar,   Siberian elm,   Siouxland   cottonwood
I36A: Kittson	   70     	Nanking cherry,   Saskatoon   serviceberry,   golden currant,   silverberry	American   cranberrybush,   American plum,   Siberian peashrub,   eastern arborvitae	  Nannyberry,   Manchurian apricot,   Manchurian   crabapple, Black   Hills spruce, blue   spruce, bur oak	  American basswood,   green ash, robusta   cottonwood 	  Red maple, eastern   cottonwood,   imperial Carolina   poplar
Roliss	   12       	  Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	  Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,   Siberian elm     	  Imperial Carolina   poplar, eastern   cottonwood 

Table 10.--Windbreaks and Environmental Plantings--Continued

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
I36A: Hamerly	   5       	Russian almond, Saskatoon serviceberry, blueleaf honeysuckle, indigobush	Arnold Hawthorn, Siberian peashrub, common lilac, silver buffaloberry, eastern redcedar	  Blue spruce, bur   oak, ponderosa pine     	  Common hackberry,  green ash, laurel  willow 	  Siberian elm,   eastern cottonwood   	
Kratka	   5     	American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar	
Grimstad	   3     	   Blueleaf   honeysuckle,   indigobush,   silverberry 	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   black ash,   ponderosa pine, bur   oak	green ash, laurel	  Eastern cottonwood,   imperial Carolina   poplar   	
Strandquist	   3     	Siberian peashrub,   common lilac,   redosier dogwood,   silverberry,   western sandcherry	   Buffaloberry, common   chokecherry, late   lilac, eastern   arborvitae, eastern   redcedar,   nannyberry	  Black Hills spruce,   Russian-olive,   black ash, common   hackberry, green   ash	Laurel willow,   Siberian elm	  Siouxland   cottonwood,   imperial Carolina   poplar 	
Foxhome	2           	Blueleaf   honeysuckle,   eastern redcedar,   hedge cotoneaster,   peashrub, silver   buffaloberry,	Amur maple, common   chokecherry,   eastern arborvitae,   eastern redcedar,   nannyberry	  Scotch pine, bur   oak, ponderosa pine     	  Siberian elm,   eastern cottonwood,   green ash   	             	
I38A: Kratka	   70       	  American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking cotoneaster, common chokecherry, indigobush, nannyberry	   Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar 	

Siouxland

poplar

Siouxland

poplar

cottonwood,

cottonwood,

imperial Carolina

imperial Carolina

Map symbol and	Pct. of	l 	Trees naving predict	ted 20-year average he	eignt, in reet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
   I38A:		 	 	 	 	 
Smiley	7	  Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	  Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce		  Siberian elm, laurel   willow, eastern   cottonwood, robusta   cottonwood 
Foldahl	5		Amur maple, Peking   cotoneaster,   Siberian peashrub,   nannyberry, silver   buffaloberry,   common chokecherry,   common lilac,   eastern arborvitae,   eastern redcedar,   late lilac,   nannyberry	İ	Paper birch, common hackberry, green ash, silver maple	Imperial Carolina   poplar, cottonwood
Kratka, very cobbly	5	   American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking cotoneaster, common chokecherry, indigobush, nannyberry	  Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar

silver

buffaloberry,

eastern arborvitae

chokecherry, late

lilac, eastern

redcedar,

nannyberry

|Common chokecherry, |Black Hills spruce, |Laurel willow,

|Buffaloberry, common | Black Hills spruce, | Laurel willow,

arborvitae, eastern | hackberry, green

ash

Russian-olive,

black ash, common

green ash

common hackberry,

Siberian elm

Siberian elm

Siberian peashrub,

redosier dogwood,

Siberian peashrub,

redosier dogwood,

western sandcherry

common lilac,

silverberry,

western sandcherry

common lilac,

Strathcona-----

Kratka, depressional----

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I38A: Linveldt	2	  Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry	  Siberian peashrub,   common chokecherry,   common lilac,   American   cranberrybush, Amur   maple, eastern   redcedar	Scotch pine, bur   oak, common	  Imperial Carolina   poplar, robusta   cottonwood   	  Siberian elm,   eastern cottonwood     
I39A: Linveldt	65	Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry		Scotch pine, bur   oak, common	  Imperial Carolina   poplar, robusta   cottonwood 	  Siberian elm,   eastern cottonwood     
Kratka	14	American plum, Nanking cherry, Siberian peashrub, golden currant, redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	Siouxland   cottonwood,   imperial Carolina   poplar
Reiner	10	Russian almond,   Saskatoon   serviceberry,   golden currant,   silverberry	American   cranberrybush,   American plum,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Manchurian apricot,   blue spruce, bur   oak		Siberian elm, sugar   maple, eastern   cottonwood
Smiley	5	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	  Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce 		Siberian elm, laurel   willow, eastern   cottonwood, robusta   cottonwood

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of				
component name	map unit	<8	8-15	16-25	26-35	>35
I39A: Eckvoll	3	   Peking cotoneaster,   Saskatoon   serviceberry,   silver   buffaloberry,   western sandcherry	Amur maple, Siberian   peashrub,   nannyberry, common   chokecherry,   eastern redcedar	  Manchurian   crabapple, Black   Hills spruce,   Scotch pine,   Siberian elm, bur   oak, common   hackberry, green   ash	Red maple, green ash, paper birch	    Imperial Carolina   poplar, Siouxland   cottonwood   
Foldahl	2	   Saskatoon   serviceberry,   blueleaf   honeysuckle,   indigobush,   silverberry,   western sandcherry	Amur maple, Peking   cotoneaster,   Siberian peashrub,   nannyberry, silver   buffaloberry,   common chokecherry,   common lilac,   eastern arborvitae,   eastern redcedar,   late lilac,   nannyberry	Manchurian   crabapple, Black   Hills spruce,   Scotch pine, bur   oak, ponderosa   pine, red maple	Paper birch, common   hackberry, green   ash, silver maple	  Imperial Carolina   poplar, cottonwood         
Pelan	1	  Peking cotoneaster,   redosier dogwood   	American plum,   common chokecherry,   hedge cotoneaster,   common lilac,   silver buffaloberry	crabapple, bur oak, Russian-olive	  Green ash, Siberian   elm     	  Silver maple,   imperial Carolina   poplar, eastern   cottonwood
I41A:						
Markey	80	j	j		j	i
Deerwood	12	 	 	 	 	 
Berner	2			 	 	 !
Hamar     	2	  Nanking cherry,   Siberian peashrub,   redosier dogwood,   silver buffaloberry	  American   cranberrybush,   common chokecherry,   common lilac 	  Siberian crabapple,   Black Hills spruce,   blue spruce, black   ash, common   hackberry	•	  Eastern cottonwood,   imperial Carolina   poplar 
Seelyeville	2	i I	i I	 	i I	i I

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of					
component name	map unit	<8	8-15	16-25	26-35	>35
I41A: Syrene	2	  Siberian peashrub,   redosier dogwood,   western sandcherry	Common chokecherry, late lilac, eastern arborvitae, nannyberry, silver buffaloberry	Black Hills spruce, common hackberry, green ash	    Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina   poplar
[42A:		 	 	 	 	 
Markey, ponded	85				<u></u>	j
Markey	5				 	 
Deerwood	4	   	   		 	 
Seelyeville, ponded	4	 	 			
Hamar	1	  Nanking cherry,   Siberian peashrub,   redosier dogwood,   silver buffaloberry	  American   cranberrybush,   common chokecherry,   common lilac	Siberian crabapple, Black Hills spruce, blue spruce, black ash, common hackberry		Eastern cottonwood   imperial Carolina   poplar 
Hangaard	1	Peking cotoneaster,   sandbar willow,   Siberian peashrub,   redosier dogwood,   western sandcherry	Amur maple, common	Black Hills spruce, Scotch pine, black ash, common hackberry	  Green ash, laurel   willow, silver   maple 	Siberian elm,  Siouxland  cottonwood,  imperial Carolina  poplar
I43A:		 	 			İ
Mavie	70	Sandbar willow,   Siberian peashrub,   common lilac,   indigobush	Common chokecherry,   late lilac, eastern   arborvitae, eastern   redcedar	Hills spruce,	Laurel willow,   Siberian elm,   Siouxland   cottonwood	       
Vallers	10	Russian almond,   sandbar willow,   Siberian peashrub,   indigobush	Common chokecherry,   common lilac,   eastern redcedar	Black Hills spruce, blue spruce, green ash, common hackberry	Laurel willow,   quaking aspen 	Imperial Carolina   poplar, eastern   cottonwood
Strandquist	7	  Siberian peashrub,   common lilac,   redosier dogwood,   silverberry,   western sandcherry	Buffaloberry, common   chokecherry, late   lilac, eastern   arborvitae, eastern   redcedar,   nannyberry	Russian-olive, black ash, common	  Laurel willow,   Siberian elm       	  Siouxland   cottonwood,   imperial Carolina   poplar 

			Trees having predict	ted 20-year average h	eight, in feet, of	
Map symbol and	Pct. of	! 	Trees maying bredic		eranc, in reet, or	
component name	map unit	<8	8-15	16-25	26-35	>35
I43A: Strathcona	5	  Siberian peashrub,  common lilac,  redosier dogwood,  western sandcherry	  Common chokecherry,  silver  buffaloberry,  eastern arborvitae	  Black Hills spruce,   common hackberry,   green ash	    Laurel willow,   Siberian elm   	  Siouxland  cottonwood,  imperial Carolina  poplar
Strathcona, depressional	3	 	 	 	 	 
Foxhome	2	Blueleaf   honeysuckle,   eastern redcedar,   hedge cotoneaster,   peashrub, silver   buffaloberry,   western sandcherry	Amur maple, common   chokecherry,   eastern arborvitae,   eastern redcedar,   nannyberry	  Scotch pine, bur   oak, ponderosa pine       	  Siberian elm,   eastern cottonwood,   green ash   	             
Karlsruhe	2	Common lilac, silver   buffaloberry,   silverberry	Peashrub, common   chokecherry,   eastern arborvitae,   eastern redcedar	Black Hills spruce,   ponderosa pine,   Siberian elm, green   ash	silver maple	   siouxland   cottonwood,   imperial Carolina   poplar
Grimstad	1	  Blueleaf   honeysuckle,   indigobush,   silverberry 	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   black ash,   ponderosa pine, bur   oak   	green ash, laurel	  Eastern cottonwood,   imperial Carolina   poplar   
I44A:				İ	İ	İ
Newfolden	75	Saskatoon   serviceberry,   common lilac,   golden currant 	Siberian peashrub,   common chokecherry,   American   cranberrybush,   eastern redcedar	Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, Russian-   olive, blue spruce,   bur oak	laurel willow   	Siberian elm,   eastern cottonwood       
Smiley	12	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	Manchurian apricot,   Manchurian   crabapple, blue   spruce	Green ash, quaking aspen, American basswood	  Siberian elm, laurel   willow, eastern   cottonwood, robusta   cottonwood 

Table 10.--Windbreaks and Environmental Plantings--Continued

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I44A: Boash	8   	    Nanking cherry,   Peking cotoneaster,   redosier dogwood 	    American plum,   common chokecherry,   common lilac 	    Eastern arborvitae,   Manchurian   crabapple, European   larch	willow	  Silver maple,   imperial Carolina   poplar, eastern   cottonwood
Linveldt	4	Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry	Siberian peashrub,   common chokecherry,   common lilac,   American   cranberrybush, Amur   maple, eastern   redcedar	Russian-olive,   Scotch pine, bur   oak, common	Imperial Carolina   poplar, robusta   cottonwood	  Siberian elm,   eastern cottonwood   
Hapludolls	1	  Nanking cherry,   golden currant,   indigobush   	  American plum,   Siberian peashrub,   common lilac,   eastern redcedar	  Siberian crabapple,   Russian-olive, bur   oak, ponderosa   pine, blue spruce 	  Green ash,   honeylocust     	  Siberian elm,   eastern cottonwood,   imperial Carolina   poplar, silver   maple
I45A:		j	j	j	İ	j
Northwood	75					
Hamre	10	 	 	 	   	 
Berner	5	<u></u>	<u></u>	į		į
Kratka	5	American plum, Nanking cherry, Siberian peashrub, golden currant, redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar 
Strandquist	3	   Siberian peashrub,   common lilac,   redosier dogwood,   silverberry,   western sandcherry	  Buffaloberry, common   chokecherry, late   lilac, eastern   arborvitae, eastern   redcedar,   nannyberry	  Black Hills spruce,   Russian-olive,   black ash, common   hackberry, green   ash	Laurel willow,   Siberian elm	  Siouxland   cottonwood,   imperial Carolina   poplar 
Roliss	2	  Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood	  Common chokecherry,  common lilac,  cotoneaster,  eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,   Siberian elm     	  Imperial Carolina   poplar, eastern   cottonwood 

Map symbol and	Pct. of	<u> </u>	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	-   <8	8-15	16-25	26-35	>35
I46A:		 	 	 	 	 
Pits	85	 	 	i	 	 
Udipsamments	10	 	 	j I	 	i
Radium	2	sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry	Siberian peashrub,   common chokecherry,   late lilac,   nannyberry		ash, laurel willow	         
Maddock	1	siberian peashrub,   silver   buffaloberry,   western sandcherry	Common chokecherry,   eastern redcedar 	Bur oak, Black Hills   spruce, Scotch   pine, green ash 	Siouxland   cottonwood, red   maple 	     
Marquette	1	Silver buffaloberry,   western sandcherry 	Russian-olive,   common chokecherry,   peashrub, late   lilac	Eastern redcedar,   Scotch pine 	Green ash, silver   maple, Carolina   poplar, Siouxland   cottonwood	   
Sandberg	1	silver buffaloberry,   western sandcherry 	Russian-olive,   common chokecherry,   peashrub, late   lilac	Eastern redcedar,   Scotch pine   	Green ash, silver   maple, Carolina   poplar, Siouxland   cottonwood	       
I47A:		İ	İ	j	İ	İ
Poppleton	75	Peking cotoneaster,   blueleaf   honeysuckle, silver   buffaloberry,   silverberry,   western sandcherry	juniper, Siberian	Black Hills spruce,   Scotch pine     	Red maple, green ash         	Siouxland   cottonwood,   imperial Carolina   poplar 
Flaming	12	   Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	Red maple, green   ash, Siouxland   cottonwood 	           

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I47A: Garborg	   5       	  Nanking cherry,   Peking cotoneaster,   blueleaf   honeysuckle,   redosier dogwood	American   cranberrybush,   Rocky Mountain   juniper, common   lilac, peashrub,   common chokecherry,   eastern redcedar	  Siberian crabapple,   blue spruce, Black  Hills spruce,  Scotch pine, common  hackberry	willow	  Eastern cottonwood,   imperial Carolina   poplar   		
Hamar	   3     	  Nanking cherry,   Siberian peashrub,   redosier dogwood,   silver buffaloberry	  American   cranberrybush,   common chokecherry,   common lilac	  Siberian crabapple,   Black Hills spruce,   blue spruce, black   ash, common   hackberry	•	  Eastern cottonwood,   imperial Carolina   poplar 		
Radium	2 	Sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry	Siberian peashrub,   common chokecherry,   late lilac,   nannyberry		ash, laurel willow	         		
Ulen	2         	Amur honeysuckle, indigobush, silver buffaloberry	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern arborvitae,   eastern redcedar	common hackberry	Laurel willow, green   ash         	  Siberian elm,   Siouxland   cottonwood   		
Maddock	   1     	   Siberian peashrub,   silver   buffaloberry,   western sandcherry	  Common chokecherry,   eastern redcedar   	  Bur oak, Black Hills   spruce, Scotch   pine, green ash 	  Siouxland   cottonwood, red   maple   	       		
I48A: Radium	   75       	Sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry	Siberian peashrub,   common chokecherry,   late lilac,   nannyberry		ash, laurel willow	         		
Sandberg	   7     	  Silver buffaloberry,   western sandcherry   	  Russian-olive,   common chokecherry,   peashrub, late   lilac	  Eastern redcedar,   Scotch pine   	Green ash, silver   maple, Carolina   poplar, Siouxland   cottonwood	       		

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
I48A: Oylen	5	 	  Siberian peashrub,   common chokecherry,   nannyberry 	  Black Hills spruce,   Russian-olive,   eastern arborvitae,   eastern redcedar,   Scotch pine, common   hackberry	Siouxland   cottonwood, green   ash, laurel willow	 	
Flaming	4	Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	Scotch pine,   ponderosa pine 	  Red maple, green   ash, Siouxland   cottonwood 	             	
Garborg	3	Nanking cherry, Peking cotoneaster, blueleaf honeysuckle, redosier dogwood	American   cranberrybush,   Rocky Mountain   juniper, common   lilac, peashrub,   common chokecherry,   eastern redcedar	Siberian crabapple,   blue spruce, Black   Hills spruce,   Scotch pine, common   hackberry	willow	Eastern cottonwood   imperial Carolina   poplar   	
Hangaard	3	Peking cotoneaster,   sandbar willow,   Siberian peashrub,   redosier dogwood,   western sandcherry	  Amur maple, common   chokecherry   	Black Hills spruce,   Scotch pine, black   ash, common   hackberry	  Green ash, laurel   willow, silver   maple 	  Siberian elm,   Siouxland   cottonwood,   imperial Carolina   poplar	
Hamar	2	  Nanking cherry,   Siberian peashrub,   redosier dogwood,   silver buffaloberry	  American   cranberrybush,   common chokecherry,   common lilac	Siberian crabapple,   Black Hills spruce,   blue spruce, black   ash, common   hackberry		  Eastern cottonwood   imperial Carolina   poplar 	
Poppleton	1	Peking cotoneaster,   blueleaf   honeysuckle, silver   buffaloberry,   silverberry,   western sandcherry	juniper, Siberian	  Black Hills spruce,   Scotch pine       	  Red maple, green ash           	  Siouxland   cottonwood,   imperial Carolina   poplar   	

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I50A: Reiner	     70   	  Russian almond,   Saskatoon   serviceberry,   golden currant,   silverberry	American cranberrybush, American plum, common chokecherry, eastern redcedar	  Black Hills spruce,   Manchurian apricot,   blue spruce, bur   oak		  Siberian elm, sugar   maple, eastern   cottonwood 
Smiley	   12         	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	  Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce 		Siberian elm, laurel   willow, eastern   cottonwood, robusta   cottonwood
Reiner, very cobbly	   7   	Russian almond,   Saskatoon   serviceberry,   golden currant,   silverberry	American	  Black Hills spruce,   Manchurian apricot,   blue spruce, bur   oak		Siberian elm, sugar   maple, eastern   cottonwood
Linveldt	   5     	  Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry	   Siberian peashrub,   common chokecherry,   common lilac,   American   cranberrybush, Amur   maple, eastern   redcedar	Scotch pine, bur   oak, common	  Imperial Carolina   poplar, robusta   cottonwood   	  Siberian elm,   eastern cottonwood     
Eckvoll	   3       	Peking cotoneaster,   Saskatoon   Serviceberry,   silver   buffaloberry,   western sandcherry	Amur maple, Siberian   peashrub,   nannyberry, common   chokecherry,   eastern redcedar	Manchurian   crabapple, Black   Hills spruce,   Scotch pine,   Siberian elm, bur   oak, common   hackberry, green   ash	  Red maple, green   ash, paper birch     	Imperial Carolina   poplar, Siouxland   cottonwood
Kratka	   3     	  American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	  Manchurian apricot,  Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar 

Man grmbol and	Data of	Trees having predicted 20-year average height, in feet, of					
Map symbol and component name	Pct. of map unit	   <8	8-15	16-25	26-35	>35	
I51A: Reiner	     65       	  Saskatoon   serviceberry,   golden currant,   silver   buffaloberry,   western sandcherry	American	  Manchurian apricot,   Black Hills spruce,   blue spruce,   ponderosa pine,   Manchurian   crabapple, bur oak	  Common hackberry,   green ash, laurel   willow, red maple 	  Siberian elm,  Carolina poplar,   eastern cottonwood   	
Smiley	   9           	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold   Hawthorn, Siberian   peashrub, common   lilac, late lilac,   American plum,   common chokecherry,   gray dogwood,   nannyberry, silver   buffaloberry	  Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce 	  Green ash, quaking   aspen, American   basswood   	  Siberian elm, laure   willow, eastern   cottonwood, robust   cottonwood 	
Reiner fine sandy loam	   8     	Russian almond, Saskatoon serviceberry, golden currant, silverberry	  American   cranberrybush,   American plum,   common chokecherry,   eastern redcedar	Manchurian apricot,   blue spruce, bur	  Laurel willow,   American basswood     	  Siberian elm, sugar   maple, eastern   cottonwood 	
Linveldt	   7       	  Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry		Scotch pine, bur   oak, common	  Imperial Carolina   poplar, robusta   cottonwood 	  Siberian elm,   eastern cottonwood       	
Kratka	   5     	American plum, Nanking cherry, Siberian peashrub, golden currant, redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar	
Eckvoll	   3   	Peking cotoneaster,   Saskatoon   serviceberry,   silver	  Amur maple, Siberian   peashrub,   nannyberry, common   chokecherry,		  Red maple, green   ash, paper birch 	  Imperial Carolina   poplar, Siouxland   cottonwood	

eastern redcedar

Siberian elm, bur

oak, common hackberry, green

ash

buffaloberry,

western sandcherry

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	   Pct. of	 	Trees having predict	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I51A: Reiner, very cobbly	   3   	Russian almond, Saskatoon serviceberry, golden currant, silverberry	  American   cranberrybush,   American plum,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Manchurian apricot,   blue spruce, bur   oak		  Siberian elm, sugar  maple, eastern  cottonwood 
I52A:				İ		
Reis	55         	Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   redosier dogwood	Siberian peashrub,   common chokecherry,   common lilac,   cotoneaster, common   chokecherry	Russian-olive, blue	Siberian elm	Golden willow,   imperial Carolina   poplar, eastern   cottonwood 
Clearwater	30           	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry	Common chokecherry,   common lilac,   cotoneaster	Black Hills spruce,   blue spruce, common   hackberry, green   ash 		Imperial Carolina   poplar, eastern   cottonwood 
Clearwater, very cobbly	   5         	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry	  Common chokecherry,   common lilac,   cotoneaster	  Black Hills spruce,   blue spruce, common   hackberry, green   ash 		  Imperial Carolina   poplar, eastern   cottonwood   
Clearwater, depressional	   3	 	 	 	 	 
Espelie	   3       	  Nanking cherry,   golden currant,   redosier dogwood   	Amur maple, Siberian   peashrub, common   lilac, American   plum, Manchurian   apricot, common   chokecherry	  Manchurian   crabapple, black   ash, blue spruce,   common hackberry 	  Siberian elm, laurel   willow       	  Carolina poplar,   eastern cottonwood     

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Tiess maving predic	ted 20-year average he	signe, in leet, Ol	
component name	map unit	<8	8-15	16-25	26-35	>35
I52A: Hattie	3	American plum, Russian almond, blueleaf honeysuckle, common chokecherry, golden currant		  Blue spruce, Black   Hills spruce, bur   oak 	  Common hackberry,   green ash, American   basswood	  Siberian elm,   eastern cottonwood   imperial Carolina   poplar
Wyandotte	1	  Siberian peashrub,   silverberry,   western sandcherry 	Common chokecherry,   common lilac,   silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   eastern arborvitae,   ponderosa pine   	  Laurel willow,   Siberian elm,   eastern cottonwood	         
I53A:		İ				İ
Roliss	75	Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	Laurel willow,   Siberian elm   	Imperial Carolina   poplar, eastern   cottonwood 
Kratka	8	American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry		   cottonwood,   imperial Carolina   poplar
Roliss, very cobbly	7	Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	Laurel willow, Siberian elm	Imperial Carolina   poplar, eastern   cottonwood
Kittson	5	  Nanking cherry,   Saskatoon   serviceberry,   golden currant,   silverberry	American   cranberrybush,   American plum,   Siberian peashrub,   eastern arborvitae	Nannyberry,   Manchurian apricot,   Manchurian   crabapple, Black   Hills spruce, blue   spruce, bur oak	American basswood, green ash, robusta cottonwood	Red maple, eastern   cottonwood,   imperial Carolina   poplar
Roliss, depressional	3	   	 			 

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I53A: Smiley	2	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	   Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce 	  Green ash, quaking   aspen, American   basswood 	  Siberian elm, laurel  willow, eastern   cottonwood, robusta   cottonwood		
I54A: Roliss, depressional	80							
Roliss	12	  Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,   Siberian elm   	Imperial Carolina   poplar, eastern   cottonwood		
Hamre	5	 	 	 	 			
Kratka	3	  American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	  Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	Siouxland   cottonwood,   imperial Carolina   poplar		
I55A:		 	 	 				
Rosewood	75   	Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   black ash, common   hackberry, green   ash	Laurel willow,   Siberian elm   	Siouxland   cottonwood,   imperial Carolina   poplar		
Ulen	10	  Amur honeysuckle,   indigobush     	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern redcedar	Black Hills spruce,   bur oak, ponderosa   pine, common   hackberry	  Green ash, laurel   willow   	Carolina poplar,   Siberian elm,   Siouxland   cottonwood		
Hamar	6	  Nanking cherry,   Siberian peashrub,   redosier dogwood,   silver buffaloberry	  American   cranberrybush,   common chokecherry,   common lilac	  Siberian crabapple,   Black Hills spruce,   blue spruce, black   ash, common   hackberry		Eastern cottonwood,   imperial Carolina   poplar		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	   Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I55A: Rosewood, depressional	     3	 	 	 	 	 		
Syrene	   3     	  Siberian peashrub,   redosier dogwood,   western sandcherry 	Common chokecherry,   late lilac, eastern   arborvitae,   nannyberry, silver   buffaloberry	  Black Hills spruce,   common hackberry,   green ash	  Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina   poplar		
Karlsruhe	   1     	Common lilac, silver   buffaloberry,   silverberry	  Peashrub, common   chokecherry,   eastern arborvitae,   eastern redcedar	  Black Hills spruce,   ponderosa pine,   Siberian elm, green   ash	silver maple	  Siouxland   cottonwood,   imperial Carolina   		
Strathcona	1     	Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	Common chokecherry,   silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   common hackberry,   green ash	Laurel willow,   Siberian elm 	Siouxland   cottonwood,   imperial Carolina   poplar		
Thiefriver	     	Siberian peashrub,   common lilac,   redosier dogwood	Common chokecherry,   nannyberry, eastern   arborvitae		  Laurel willow,   Siberian elm   	  Eastern cottonwood   imperial Carolina   poplar 		
I57B: Sandberg	   50   	  Silver buffaloberry,   western sandcherry 	Russian-olive,   common chokecherry,   peashrub, late   lilac	  Eastern redcedar,   Scotch pine 	  Green ash, silver   maple, Carolina   poplar, Siouxland   cottonwood	     		
Radium	25         	  Sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry	  Siberian peashrub,   common chokecherry,   late lilac,   nannyberry		ash, laurel willow	         		
Sioux	   8   	  Silver buffaloberry,   western sandcherry   	Russian-olive,   common chokecherry,   peashrub, late   lilac	  Eastern redcedar,   Scotch pine   	Green ash, silver   maple, Carolina   poplar, Siouxland   cottonwood	     		
Oylen	   7       	         	  Siberian peashrub,   common chokecherry,   nannyberry		ash, laurel willow	         		

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	   Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I57B: Flaming	   5   5   	  Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry		  Black Hills spruce,   Scotch pine,   ponderosa pine   	Red maple, green ash, Siouxland cottonwood	             		
Garborg	5         	  Nanking cherry,   Peking cotoneaster,   blueleaf   honeysuckle,   redosier dogwood	American   cranberrybush,   Rocky Mountain   juniper, common   lilac, peashrub,   common chokecherry,   eastern redcedar	  Siberian crabapple,   blue spruce, Black   Hills spruce,   Scotch pine, common   hackberry	willow	Eastern cottonwood,   imperial Carolina   poplar 		
159A:	İ	İ	İ	İ	İ	İ		
Smiley	65           	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce 		Siberian elm, laure:   willow, eastern   cottonwood, robust:   cottonwood 		
Smiley, very cobbly	10           	  Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	  Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce 				
Kratka	   9     	   American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking cotoneaster, common chokecherry, indigobush, nannyberry	  Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian			

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
 	5	  Sandbar willow,  Siberian peashrub,  indigobush,  redosier dogwood	  Common chokecherry,  common lilac,  cotoneaster,  eastern arborvitae	  Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	    Laurel willow,   Siberian elm   	  Imperial Carolina   poplar, eastern   cottonwood 
   Reiner        	4	Russian almond, Saskatoon serviceberry, golden currant, silverberry	American cranberrybush, American plum, common chokecherry, eastern redcedar	  Black Hills spruce,   Manchurian apricot,   blue spruce, bur   oak		  Siberian elm, sugar   maple, eastern   cottonwood 
Linveldt            	3	  Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry		Scotch pine, bur   oak, common	  Imperial Carolina   poplar, robusta   cottonwood 	  Siberian elm,   eastern cottonwood   
Smiley, depressional	3	 				
  Strandquist          	1	siberian peashrub,   common lilac,   redosier dogwood,   silverberry,   western sandcherry	Buffaloberry, common   chokecherry, late   lilac, eastern   arborvitae, eastern   redcedar,   nannyberry	Black Hills spruce,   Russian-olive,   black ash, common   hackberry, green   ash	  Laurel willow,   Siberian elm     	
   I60A:		 	 	 	 	
Smiley, depressional	80		i	i	i	i
Smiley                	10	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	  Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce 		Siberian elm, laure   willow, eastern   cottonwood, robust   cottonwood
		I	I	I	I	1

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	   Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
I60A: Kratka	5	American plum, Nanking cherry, Siberian peashrub, golden currant, redosier dogwood	  Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	   Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar	
I61A:		 	 	 		! 	
Strandquist	70	Siberian peashrub,   common lilac,   redosier dogwood,   silverberry,   western sandcherry	Buffaloberry, common   chokecherry, late   lilac, eastern   arborvitae, eastern   redcedar,   nannyberry	Black Hills spruce,   Russian-olive,   black ash, common   hackberry, green   ash	Laurel willow, Siberian elm	Siouxland   cottonwood,   imperial Carolina   poplar 	
Mavie	8		Common chokecherry,   late lilac, eastern   arborvitae, eastern   redcedar	Hills spruce,	Laurel willow, Siberian elm, Siouxland cottonwood	     	
Roliss	7	Sandbar willow,   Siberian peashrub,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce, blue spruce, bur oak, common hackberry, green ash	Laurel willow, Siberian elm	Imperial Carolina   poplar, eastern   cottonwood 	
Kratka	5	American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	  Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar	
Foxhome	4	Blueleaf   honeysuckle,   eastern redcedar,   hedge cotoneaster,   peashrub, silver   buffaloberry,   western sandcherry	Amur maple, common   chokecherry,   eastern arborvitae,   eastern redcedar,   nannyberry	  Scotch pine, bur   oak, ponderosa pine       	Siberian elm,   eastern cottonwood,   green ash	           	
Hangaard	3	Peking cotoneaster,   sandbar willow,   Siberian peashrub,   redosier dogwood,   western sandcherry	  Amur maple, common   chokecherry     	Black Hills spruce,   Scotch pine, black   ash, common   hackberry	Green ash, laurel willow, silver maple	  Siberian elm,   Siouxland   cottonwood,   imperial Carolina   poplar	

Map symbol and	Pct. of	 	Trees having predict	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I61A: Northwood	3	 	 	 	 	   
I62A: Syrene	70	  Siberian peashrub,   redosier dogwood,   western sandcherry 	Common chokecherry,  late lilac, eastern arborvitae, nannyberry, silver buffaloberry	  Black Hills spruce,   common hackberry,   green ash 	  Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina   poplar 
Rosewood	11	Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   black ash, common   hackberry, green   ash	Laurel willow,   Siberian elm 	Siouxland   cottonwood,   imperial Carolina   poplar
Hangaard	5	Peking cotoneaster,   sandbar willow,   Siberian peashrub,   redosier dogwood,   western sandcherry	Amur maple, common   chokecherry 	  Black Hills spruce,   Scotch pine, black   ash, common   hackberry	Green ash, laurel   willow, silver   maple 	   Siberian elm,   Siouxland   cottonwood,   imperial Carolina   poplar
Karlsruhe	4	Common lilac, silver   buffaloberry,   silverberry	Peashrub, common   chokecherry,   eastern arborvitae,   eastern redcedar	Black Hills spruce,   ponderosa pine,   Siberian elm, green   ash	silver maple	Siouxland   cottonwood,   imperial Carolina   poplar
Deerwood	3					
Hamar	3	Nanking cherry,   Siberian peashrub,   redosier dogwood,   silver buffaloberry	American   cranberrybush,   common chokecherry,   common lilac	Siberian crabapple,   Black Hills spruce,   blue spruce, black   ash, common   hackberry		Eastern cottonwood,   imperial Carolina   poplar 
Strandquist	2	siberian peashrub,   common lilac,   redosier dogwood,   silverberry,   western sandcherry	Buffaloberry, common   chokecherry, late   lilac, eastern   arborvitae, eastern   redcedar,   nannyberry	Black Hills spruce,   Russian-olive,   black ash, common   hackberry, green   ash	Laurel willow,   Siberian elm	Siouxland   cottonwood,   imperial Carolina   poplar
Radium	1	  Sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry 	  Siberian peashrub,   common chokecherry,   late lilac,   nannyberry	  Black Hills spruce,   Russian-olive,   eastern arborvitae,   eastern redcedar,   Scotch pine, common   hackberry	ash, laurel willow	           

 ${\tt Table~10.--Windbreaks~and~Environmental~Plantings--Continued}\\$ 

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of						
component name	map unit	<8	8-15	16-25	26-35	>35		
I62A: Wyandotte	1	  Siberian peashrub,   silverberry,   western sandcherry		   Black Hills spruce,   eastern arborvitae,   ponderosa pine 	!	 		
I63A: Thiefriver	70	  Siberian peashrub,   common lilac,   redosier dogwood	  Common chokecherry,   nannyberry, eastern   arborvitae	  Black Hills spruce,   black ash, green   ash	  Laurel willow,   Siberian elm 	  Eastern cottonwood   imperial Carolina   poplar		
Espelie	10	  Nanking cherry,   golden currant,   redosier dogwood 	Amur maple, Siberian   peashrub, common   lilac, American   plum, Manchurian   apricot, common   chokecherry	  Manchurian   crabapple, black   ash, blue spruce,   common hackberry	  Siberian elm, laurel   willow     	  Carolina poplar,   eastern cottonwoo     		
Foxlake	7	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry	   Common chokecherry,   common lilac,   eastern arborvitae	  Black Hills spruce,   blue spruce, common   hackberry, green   ash 		  Imperial Carolina   poplar, eastern   cottonwood   		
Huot	5	  Indigobush, sargent   crabapple,   silverberry 	  Siberian peashrub,   common chokecherry,   common lilac,   eastern arborvitae,   eastern redcedar	  Ponderosa pine,   black ash, bur oak   	  Common hackberry,   green ash   	  Siberian elm,   eastern cottonwoo     		
Clearwater, depressional	3							
Rosewood	3	  Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   asstern arborvitae	  Black Hills spruce,   black ash, common   hackberry, green   ash	  Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina   poplar		
Ulen	1	  Amur honeysuckle,   indigobush     	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   bur oak, ponderosa   pine, common   hackberry 	  Green ash, laurel   willow     	Carolina poplar,   Siberian elm,   Siouxland   cottonwood		

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I63A: Wyandotte	1	  Siberian peashrub,   silverberry,   western sandcherry		 	      Laurel willow,	         
I64A:		i I	i I	i I	i I	! 
Ulen	70	Amur honeysuckle,   indigobush       	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern redcedar	Black Hills spruce,   bur oak, ponderosa   pine, common   hackberry	Green ash, laurel   willow         	Carolina poplar,   Siberian elm,   Siouxland   cottonwood
Rosewood	10	Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   black ash, common   hackberry, green   ash	  Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina 
Flaming	8	Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	Scotch pine,   ponderosa pine 	Red maple, green ash, Siouxland cottonwood	         
Karlsruhe	5   5	Common lilac, silver   buffaloberry,   silverberry	Peashrub, common   chokecherry,   eastern arborvitae,   eastern redcedar	  Black Hills spruce,   ponderosa pine,   Siberian elm, green   ash	silver maple	  Siouxland   cottonwood,   imperial Carolina   poplar
Radium	3	  Sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry	  Siberian peashrub,   common chokecherry,   late lilac,   nannyberry		ash, laurel willow	         
Strathcona	2	   Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	Common chokecherry,   silver   buffaloberry,   eastern arborvitae	  Black Hills spruce,   common hackberry,   green ash	  Laurel willow,   Siberian elm 	  Siouxland   cottonwood,   imperial Carolina   poplar

Table 10.--Windbreaks and Environmental Plantings--Continued

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	i 				
component name	map unit	<8	8-15	16-25	26-35	>35
I64A: Thiefriver	2	  Siberian peashrub,   common lilac,   redosier dogwood	  Common chokecherry,   nannyberry, eastern   arborvitae		    Laurel willow,   Siberian elm 	Eastern cottonwood, imperial Carolina poplar
I65A:	İ	 	 	 	 	 
Ulen	70	Amur honeysuckle,   indigobush, silver   buffaloberry     	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern arborvitae,   eastern redcedar	bur oak, ponderosa   pine, bur oak,   common hackberry	Laurel willow, green   ash         	Siberian elm, Siouxland cottonwood
Rosewood	10	Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   eastern arborvitae	  Black Hills spruce,   black ash, common   hackberry, green   ash	  Laurel willow,   Siberian elm 	Siouxland   cottonwood,   imperial Carolina   poplar
Flaming	6	  Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	Red maple, green ash, Siouxland cottonwood	
Poppleton	4	Peking cotoneaster,   blueleaf   honeysuckle, silver   buffaloberry,   silverberry,   western sandcherry	juniper, Siberian	  Black Hills spruce,   Scotch pine     	  Red maple, green ash         	Siouxland   cottonwood,   imperial Carolina   poplar
Karlsruhe	3	Common lilac, silver   buffaloberry,   silverberry	  Peashrub, common   chokecherry,   eastern arborvitae,   eastern redcedar	Black Hills spruce,   ponderosa pine,   Siberian elm, green   ash	silver maple	Siouxland   cottonwood,   imperial Carolina   poplar
Radium	3	  Sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry 	  Siberian peashrub,   common chokecherry,   late lilac,   nannyberry 	  Black Hills spruce,   Russian-olive,   eastern arborvitae,   eastern redcedar,   Scotch pine, common   hackberry	ash, laurel willow	   

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
I65A: Strathcona	     2   	  Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	  Common chokecherry,  silver  buffaloberry,  eastern arborvitae	  Black Hills spruce,   common hackberry,   green ash	    Laurel willow,   Siberian elm   	  Siouxland   cottonwood,   imperial Carolina   poplar	
Thiefriver	   2   	  Siberian peashrub,   common lilac,   redosier dogwood	  Common chokecherry,   nannyberry, eastern   arborvitae		  Laurel willow,   Siberian elm 	  Eastern cottonwood,   imperial Carolina   poplar	
I66A:	İ	 	İ	 	 	İ	
Vallers	75     	Russian almond,   sandbar willow,   Siberian peashrub,   indigobush	Common chokecherry,   common lilac,   eastern redcedar	Black Hills spruce,   blue spruce, green   ash, common   hackberry	Laurel willow,   quaking aspen   	Imperial Carolina   poplar, eastern   cottonwood 	
Vallers, very cobbly	   7   	Russian almond,   sandbar willow,   Siberian peashrub,   indigobush	Common chokecherry,   common lilac,   eastern redcedar	Black Hills spruce,   blue spruce, green   ash, common   hackberry	  Laurel willow,   quaking aspen 	Imperial Carolina   poplar, eastern   cottonwood	
Hamerly	   6       	Russian almond,   Saskatoon   serviceberry,   blueleaf   honeysuckle,   indigobush	Arnold Hawthorn,   Siberian peashrub,   common lilac,   silver   buffaloberry,   eastern redcedar	  Blue spruce, bur   oak, ponderosa pine     	  Common hackberry,   green ash, laurel   willow   	  Siberian elm,   eastern cottonwood     	
Grimstad	   3     	  Blueleaf   honeysuckle,   indigobush,   silverberry 	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   black ash,   ponderosa pine, bur   oak 	green ash, laurel	  Eastern cottonwood,   imperial Carolina   poplar   	
Mavie	   3   	  Sandbar willow,   Siberian peashrub,   common lilac,   indigobush	  Common chokecherry,   late lilac, eastern   arborvitae, eastern   redcedar	Hills spruce,	  Laurel willow,   Siberian elm,   Siouxland   cottonwood	       	
Roliss, depressional	   3 			 	 		
Strathcona	   3   	  Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	Common chokecherry,   silver   buffaloberry,   eastern arborvitae	  Black Hills spruce,   common hackberry,   green ash	  Laurel willow,   Siberian elm   	Siouxland   cottonwood,   imperial Carolina   poplar	

Table 10.--Windbreaks and Environmental Plantings--Continued

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	<u> </u>	Trees having predict	ted 20-year average he	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I67A: Wheatville	70     	  Blueleaf   honeysuckle,   indigobush,   silverberry 	  Siberian peashrub,   common chokecherry,   common lilac,   silver   buffaloberry,   eastern arborvitae,   eastern redcedar	Black Hills spruce, ponderosa pine, bur oak, common hackberry, green ash		  Eastern cottonwood,   imperial Carolina   poplar 
Augsburg	   13   	Russian almond,   sandbar willow,   indigobush,   redosier dogwood	Common chokecherry,   common lilac,   silver buffaloberry	common hackberry	Laurel willow, green ash, robusta cottonwood	Eastern cottonwood, imperial Carolina poplar
Glyndon	8	Blueleaf   honeysuckle,   indigobush,   silverberry 	Siberian peashrub,   common chokecherry,   common lilac,   silver   buffaloberry,   common lilac,   eastern arborvitae,   eastern redcedar	Black Hills spruce,   ponderosa pine,   ponderosa pine, bur   oak, common   hackberry	Common hackberry, green ash, laurel willow, laurel willow, silver maple	Imperial Carolina poplar, eastern cottonwood
Foxlake	5	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry	Common chokecherry,   common lilac,   eastern arborvitae	Black Hills spruce,   blue spruce, common   hackberry, green   ash 	Laurel willow, Siberian elm	Imperial Carolina poplar, eastern cottonwood
Hilaire	2	American plum, Peking cotoneaster, Saskatoon serviceberry, western sandcherry	Saskatoon   serviceberry,   Siberian peashrub,   Amur maple, common   chokecherry,   eastern redcedar,   nannyberry	Manchurian   crabapple, Black   Hills spruce,   Scotch pine, bur   oak, paper birch	Common hackberry, green ash	Siberian elm, Siouxland cottonwood, imperial Carolina poplar
Ulen	2         	  Amur honeysuckle,   indigobush, silver   buffaloberry   	Peking cotoneaster,   Siberian peashrub,   common chokecherry,   silver   buffaloberry,   eastern arborvitae,   eastern redcedar	bur oak, ponderosa	Laurel willow, green ash	Siberian elm,   Siouxland   cottonwood 

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of					
component name	map unit	<8	8-15	16-25	26-35	>35
I69A: Wyandotte    	65	  Siberian peashrub,   silverberry,   western sandcherry	Common chokecherry, common lilac, silver buffaloberry, eastern redcedar	  Black Hills spruce,   eastern arborvitae,   ponderosa pine 	•	 
Foxlake          	10	   Nanking cherry,   Russian almond,   Saskatoon   serviceberry,   Siberian peashrub,   golden currant,   redosier dogwood,   silver buffaloberry	Common chokecherry,   common lilac,   eastern arborvitae	  Black Hills spruce,   blue spruce, common   hackberry, green   ash 	•	  Imperial Carolina   poplar, eastern   cottonwood   
Espelie          	8	  Nanking cherry,   golden currant,   redosier dogwood   	Amur maple, Siberian   peashrub, common   lilac, American   plum, Manchurian   apricot, common   chokecherry	  Manchurian   crabapple, black   ash, blue spruce,   common hackberry 	  Siberian elm, laurel   willow     	  Carolina poplar,   eastern cottonwood     
Clearwater, depressional	5	 	 	 	 	 
Thiefriver	5	Siberian peashrub,   common lilac,   redosier dogwood	  Common chokecherry,   nannyberry, eastern   arborvitae	  Black Hills spruce,   black ash, green   ash	  Laurel willow,   Siberian elm 	  Eastern cottonwood,   imperial Carolina   poplar
Karlsruhe	4	Common lilac, silver   buffaloberry,   silverberry	Peashrub, common   chokecherry,   eastern arborvitae,   eastern redcedar	Black Hills spruce,   ponderosa pine,   Siberian elm, green   ash	silver maple	  Siouxland   cottonwood,   imperial Carolina   poplar
Syrene        	3	  Siberian peashrub,   redosier dogwood,   western sandcherry 	Common chokecherry, late lilac, eastern arborvitae, nannyberry, silver buffaloberry	  Black Hills spruce,   common hackberry,   green ash 	  Laurel willow,   Siberian elm     	  Siouxland   cottonwood,   imperial Carolina   poplar 
I70A:		İ		İ		j
Strathcona	70	Siberian peashrub,   common lilac,   redosier dogwood,   western sandcherry	Common chokecherry,   silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   common hackberry,   green ash	Laurel willow,   Siberian elm 	Siouxland   cottonwood,   imperial Carolina   poplar

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	[ 	Trees having predic	ted 20-year average he	eight, in feet, of		
component name	map unit	<8	8-15	16-25	26-35	>35	
	10	American plum, Nanking cherry, Siberian peashrub, golden currant, redosier dogwood	  Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	   Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar	
Roliss    	6		Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce, blue spruce, bur oak, common hackberry, green ash	  Laurel willow,   Siberian elm   	Imperial Carolina   poplar, eastern   cottonwood	
Grimstad	5	  Blueleaf   honeysuckle,   indigobush,   silverberry	Arnold Hawthorn,   Siberian peashrub,   common chokecherry,   late lilac, silver   buffaloberry,   eastern redcedar	  Black Hills spruce,   black ash,   ponderosa pine, bur   oak	green ash, laurel	  Eastern cottonwood,   imperial Carolina   poplar   	
Mavie      	3	Sandbar willow,  Siberian peashrub,  common lilac,  indigobush	Common chokecherry,   late lilac, eastern   arborvitae, eastern   redcedar	Hills spruce,	Laurel willow,   Siberian elm,   Siouxland   cottonwood	   	
Rosewood	3	Siberian peashrub,   common lilac,   indigobush,   redosier dogwood	Common chokecherry,   nannyberry, silver   buffaloberry,   eastern arborvitae	Black Hills spruce,   black ash, common   hackberry, green   ash	  Laurel willow,   Siberian elm 	  Siouxland   cottonwood,   imperial Carolina   poplar	
Strathcona, depressional	3						
I71A:   Berner, ponded	45	 	 	 	 	 	
Cathro, ponded	45						
Hamre	2	 	 			ļ	
   Kratka        	2	American plum, Nanking cherry, Siberian peashrub, golden currant, redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	Manchurian apricot, Russian-olive, blue spruce, Black Hills spruce, common hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar	
   Northwood	2	   	 	 	   	 	

Map symbol and	Pct. of	Trees having predicted 20-year average height, in feet, of					
component name	map unit	<8	8-15	16-25	26-35	>35	
I71A: Roliss	   2     	  Sandbar willow,  Siberian peashrub,  indigobush,  redosier dogwood		  Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,  Siberian elm   	  Imperial Carolina   poplar, eastern   cottonwood 	
Seelyeville, ponded	   2	 	 	 	 	 	
I72A: Pelan	   65   	  Peking cotoneaster,   redosier dogwood   	American plum,   common chokecherry,   hedge cotoneaster,   common lilac,   silver buffaloberry	crabapple, bur oak,	  Green ash, Siberian   elm   	  Silver maple,   imperial Carolina   poplar, eastern   cottonwood	
Smiley	10	Russian almond,   golden currant,   honeysuckle,   indigobush,   redosier dogwood	Amur maple, Arnold Hawthorn, Siberian peashrub, common lilac, late lilac, American plum, common chokecherry, gray dogwood, nannyberry, silver buffaloberry	  Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, blue   spruce 	Green ash, quaking aspen, American basswood	  Siberian elm, laurel   willow, eastern   cottonwood, robusta   cottonwood 	
Linveldt	8   	  Nanking cherry,   Saskatoon   serviceberry,   indigobush, silver   buffaloberry	   Siberian peashrub,   common chokecherry,   common lilac,   American   cranberrybush, Amur   maple, eastern   redcedar	  Black Hills spruce,   Russian-olive,   Scotch pine, bur   oak, common   hackberry	  Imperial Carolina   poplar, robusta   cottonwood   	  Siberian elm,   eastern cottonwood     	
Kratka	   5   	American plum,   Nanking cherry,   Siberian peashrub,   golden currant,   redosier dogwood	Amur maple, Peking   cotoneaster, common   chokecherry,   indigobush,   nannyberry	  Manchurian apricot,   Russian-olive, blue   spruce, Black Hills   spruce, common   hackberry	willow, Siberian	  Siouxland   cottonwood,   imperial Carolina   poplar	
Strandquist	   5       	Siberian peashrub,   common lilac,   redosier dogwood,   silverberry,   western sandcherry	Buffaloberry, common   chokecherry, late   lilac, eastern   arborvitae, eastern   redcedar,   nannyberry	  Black Hills spruce,   Russian-olive,   black ash, common   hackberry, green   ash	  Laurel willow,   Siberian elm     	  Siouxland   cottonwood,   imperial Carolina   poplar 	

Table 10.--Windbreaks and Environmental Plantings--Continued

Table 10.--Windbreaks and Environmental Plantings--Continued

Map symbol and	Pct. of	 	Trees having predic	ted 20-year average h	eight, in feet, of	
component name	map unit	<8	8-15	16-25	26-35	>35
I72A: Reiner	   4     	  Russian almond,   Saskatoon   serviceberry,   golden currant,   silverberry	  American   cranberrybush,   American plum,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Manchurian apricot,   blue spruce, bur   oak		  Siberian elm, sugar   maple, eastern   cottonwood 
Eckvoll	   3         	Peking cotoneaster,   Saskatoon   serviceberry,   silver   buffaloberry,   western sandcherry	Amur maple, Siberian   peashrub,   nannyberry, common   chokecherry,   eastern redcedar	Manchurian   crabapple, Black   Hills spruce,   Scotch pine,   Siberian elm, bur   oak, common   hackberry, green   ash	Red maple, green   ash, paper birch	  Imperial Carolina   poplar, Siouxland   cottonwood   
I73A:	İ			 	i İ	İ
Boash	75     	Nanking cherry,   Peking cotoneaster,   redosier dogwood	American plum,   common chokecherry,   common lilac	!	Siberian elm, white   willow 	Silver maple,   imperial Carolina   poplar, eastern   cottonwood
Clearwater	8 	Nanking cherry, Russian almond, Saskatoon serviceberry, Siberian peashrub, golden currant, redosier dogwood, silver buffaloberry	Common chokecherry, common lilac, cotoneaster	   Black Hills spruce,   blue spruce, common   hackberry, green   ash 	Laurel willow,   Siberian elm	  Imperial Carolina   poplar, eastern   cottonwood 
Roliss	   8     	Sandbar willow,  Siberian peashrub,  indigobush,  redosier dogwood	Common chokecherry,   common lilac,   cotoneaster,   eastern arborvitae	Black Hills spruce,   blue spruce, bur   oak, common   hackberry, green   ash	  Laurel willow,   Siberian elm   	  Imperial Carolina   poplar, eastern   cottonwood 
Clearwater, depressional	   5					
Kittson	2         	  Nanking cherry,   Saskatoon   serviceberry,   golden currant,   silverberry	  American   cranberrybush,   American plum,   Siberian peashrub,   eastern arborvitae	  Nannyberry,   Manchurian apricot,   Manchurian   crabapple, Black   Hills spruce, blue   spruce, bur oak	  American basswood,   green ash, robusta   cottonwood   	Red maple, eastern   cottonwood,   imperial Carolina   poplar

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Map symbol and	Pct. of	 	frees having predic	ted 20-year average h	eight, in leet, oi	
component name	map unit	<8	8-15	16-25	26-35	>35
I73A: Newfolden	2	  Saskatoon  serviceberry,  common lilac,  golden currant	  Siberian peashrub,  common chokecherry,  American  cranberrybush,  eastern redcedar	   Black Hills spruce,   Manchurian apricot,   Manchurian   crabapple, Russian-   olive, blue spruce,   bur oak	laurel willow	    Siberian elm,   eastern cottonwood     
I75A: Radium	40	  Sandbar willow,   common lilac,   cotoneaster, silver   buffaloberry	  Siberian peashrub,   common chokecherry,   late lilac,   nannyberry	Black Hills spruce,   Russian-olive,   eastern arborvitae,   eastern redcedar,   Scotch pine, common   hackberry	ash, laurel willow	           
Sandberg	20	  Silver buffaloberry,   western sandcherry   	Russian-olive,   common chokecherry,   peashrub, late   lilac	Eastern redcedar,   Scotch pine	Green ash, silver   maple, Carolina   poplar, Siouxland   cottonwood	   
Garborg	15	  Nanking cherry,   Peking cotoneaster,   blueleaf   honeysuckle,   redosier dogwood	  American   cranberrybush,   Rocky Mountain   juniper, common   lilac, peashrub,   common chokecherry,   eastern redcedar	   Siberian crabapple,   blue spruce, Black   Hills spruce,   Scotch pine, common   hackberry	  Green ash, laurel   willow       	  Eastern cottonwood   imperial Carolina   poplar   
Oylen	10	           	  Siberian peashrub,   common chokecherry,   nannyberry 	Black Hills spruce,   Russian-olive,   eastern arborvitae,   eastern redcedar,   Scotch pine, common   hackberry	ash, laurel willow	         
Flaming	5	Peking cotoneaster,   blueleaf   honeysuckle,   silverberry,   western sandcherry	Rocky Mountain   juniper,   nannyberry,   peashrub, silver   buffaloberry,   common chokecherry,   eastern redcedar	  Black Hills spruce,   Scotch pine,   ponderosa pine   	Red maple, green ash, Siouxland cottonwood	             

Table 10.--Windbreaks and Environmental Plantings--Continued

Table 10.--Windbreaks and Environmental Plantings--Continued

			Trees having predic	ted 20-year average he	eight, in feet, of	
Map symbol and	Pct. of					
component name	map unit	<8	8-15	16-25	26-35	>35
		I	I		I	
I75A:		I	I		I	
Karlsruhe	3	Common lilac, silver	Peashrub, common	Black Hills spruce,	Laurel willow,	Siouxland
	ĺ	buffaloberry,	chokecherry,	ponderosa pine,	silver maple	cottonwood,
	İ	silverberry	eastern arborvitae,	Siberian elm, green	İ	imperial Carolina
	İ	İ	eastern redcedar	ash	İ	poplar
	İ	İ	İ	İ	İ	İ
Venlo	3	j	i	j	j	j
	İ	İ	İ	İ	İ	İ
Hangaard	2	Peking cotoneaster,	Amur maple, common	Black Hills spruce,	Green ash, laurel	Siberian elm,
	ĺ	sandbar willow,	chokecherry	Scotch pine, black	willow, silver	Siouxland
	İ	Siberian peashrub,	İ	ash, common	maple	cottonwood,
	İ	redosier dogwood,	İ	hackberry	İ	imperial Carolina
	İ	western sandcherry	İ	İ	İ	poplar
i	İ	i	İ	İ	İ	į
Sioux	2	Silver buffaloberry,	Russian-olive,	Eastern redcedar,	Green ash, silver	j
	İ	western sandcherry	common chokecherry,	Scotch pine	maple, Carolina	İ
	İ	İ	peashrub, late	İ	poplar, Siouxland	İ
i	İ	İ	lilac	İ	cottonwood	İ
i	İ	i	İ	i	i	i
			<del></del>		<del></del>	<del></del>

Table 11.--Conservation Tree/Shrub Groups

(Suitable shrubs and trees with their mature heights are listed in table 10. Absence of an entry indicates that a conservation tree/shrub group is not assigned)

Map symbol   and	Conservation tree/shrub	
component name	group	
1		
B109A: Bowstring	10	
Fluvaquents	10	
Hapludalfs	3	
Seelyeville	10	
Water		
B200A:		
Garnes	1	
Chilgren	2	
Eckvoll	1	
Garnes, very stony	1	
Grygla        Pelan	2 5	
Peran	5	
B201A:	2	
Chilgren	2	
Garnes	1	
Grygla	2	
Grygla, depressional	10	
Hamre	10	
Pelan  	5	
B202A:	10	
Cathro	10	
Hamre	10	
Chilgren	2	
Northwood	10	
Berner	10	
Grygla  	2	
Seelyeville	10	
B203A: Northwood	10	
Hamre	10	
Grygla	2	

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	   Conservation   tree/shrub
component name	group
B203A: Berner	 
Chilgren	   2 
B204A: Roliss	     2K
Grygla	             2
Chilgren	   2 
Garnes	1
Roliss, depressional	10 
Hamre	10
B205A: Berner	10
Northwood	   10 
Grygla	2 
Cathro	10 
Hamre	10
Seelyeville	10  -
B206A: Hamre	   10 
Chilgren	2 
Northwood	10  -
Cathro	
Grygla	
B207A:	
Pelan	5 
Chilgren	2 
Garnes	1
Eckvoll	1
Grygla	2 
B208A: Grygla	   2 
Chilgren	2 
Eckvoll	1

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol	   Conservation
and	tree/shrub
component name	group
B208A:	
Grygla, depressional	10
Northwood	   10 
B209A:	 
Seelyeville	10
Cathro	10
Dora	10
Markey	10
Da	 
Berner	10
B210A:	 
Eckvoll	1
2011/022	<u>-</u>
Chilgren	2
Grygla	2
Garnes	1
Pelan	5
B211A:	
Berner, ponded	10
Cathro, ponded	   10
cacino, ponded	1 ±0
Chilgren	2
	_
Grygla	2
Hamre	10
Northwood	10
Seelyeville, ponded	10
T13.	 
IlA: Augsburg	   2K
nagbourg	
Borup	2K
Foxlake	2K
Augsburg, depressional	10
Wheatville	1K
Glyndon	1K
Espelie	   2
Pobette	1
Hattie	   4C
	·
I3A:	
Berner	10
Northwood	10

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	   Conservation   tree/shrub	
component name	group	
I3A: Kratka	 	
Hamre	10	
Strathcona	   2K 	
Seelyeville	1   10 	
I4A: Berner	10	
Rosewood, depressional	1   10	
Strathcona, depressional	 	
Rosewood	2K	
Deerwood	10	
Mavie	2K	
Strathcona	   2K 	
I5A: Borup	 	
Glyndon	1 1 1	
Rosewood	   2K	
Augsburg	   2K	
Augsburg, depressional	10	
I7A: Bowstring	     10	
Fluvaquents	10	
Hapludolls	1	
Water	 	
I8A: Cathro	10	
Hamre	10	
Northwood	10	
Roliss	   2K	
Berner	10	
Kratka	2	
Seelyeville	   10 	

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	   Conservation   tree/shrub
component name	group
Compositorio riamo	====================================
I9A: Clearwater	 
Clearwater, very cobbly	 
Reis	   2к 
Clearwater, depressional	10
Espelie	2
Foxlake	2K
Hattie	4C 
Huot	1K
I11A: Deerwood	1   10 
Rosewood	2K
Markey	10
Strathcona	2K
Syrene	2K
Venlo	10
I12A: Eckvoll	 
Kratka	]   2 
Smiley	]   2 
Linveldt	5 
Reiner	1
Foldahl	1
Pelan	5   5
Poppleton	1
I13A: Espelie	 
Foxlake	   2к 
Hilaire	1
Clearwater, depressional	10
Thiefriver	   2K 

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	   Conservation   tree/shrub
component name	group
I15A: Flaming	   1
Garborg	1
Hamar	2 
Ulen	1K
Poppleton	1
Sandberg	,   7 
Foldahl	1
Radium	1
I16F:	I 
Fluvaquents	1   10 
Hapludolls	1
Hapludalfs	3 
Fairdale	1
Water	
Bowstring	10
Rauville	10
I17A:	! 
Foldahl	1
Kratka	2 
Roliss	2K
Flaming	1
Grimstad	1K
Linveldt	5 
Eckvoll	1
Strathcona	2K
I18A:	i
Foldahl	1
Kratka	2 
Roliss	2K
Flaming	1
Grimstad	1K
Linveldt	5 
	•

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	Conservation tree/shrub
component name	group
I18A: Eckvoll	1
Strathcona	2K
I19A: Foxhome	6G
Kittson	1
Strandquist	2K
Foldahl	1
Grimstad	1K
Roliss	2K
Mavie	2K
I20A: Foxlake	2K
Clearwater	2K
Foxlake, very cobbly	2K
Augsburg	2K
Clearwater, depressional	10
Espelie	2
Hilaire	1
Reis	2K
Wheatville	1K
I22A: Glyndon	1K
Borup	2K
Augsburg	2K
Ulen	1K
Wheatville	1K
Flaming	1
I24A: Grimstad	1K
Strathcona	2K
Foldahl	1
Hamerly	1K

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and component name	Conservation tree/shrub
Component name	group
I24A:	 
Foxhome	6G
Karlsruhe	   1 
Mavie	2K
Ulen	1K
I25A:	 
Hamar	2   2
Garborg	1
Rosewood	2K
Venlo	10
Flaming	1
Hangaard	   2K
Kratka	   2
-06-	
I26A: Hamerly	1K
Vallers	2K
Foxhome	   6G
Grimstad	1K
Hamerly, very cobbly	1K
Strathcona	2K
Roliss, depressional	10
127A:	 
Hamre	10
Northwood	10
Roliss	2K
Smiley	]   2
Cathro	10
Kratka	2
I32A:	 
Hilaire	]   1
Espelie	   2 
Huot	   1K
Flaming	   1
Foxlake	   2K 
	ı

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	   Conservation   tree/shrub
component name	group
I32A: Wheatville	   1K
Thiefriver	2K
Wyandotte	2K
I34A: Huot	1K
Thiefriver	   2K
Hilaire	   1
Flaming	1
Foxlake	2K
Ulen	1K
I36A: Kittson	   1 
Roliss	2K
Hamerly	1K
Kratka	2
Grimstad	
Strandquist	2K     6G
roanome	0 <del>9</del>
I38A: Kratka	 
Smiley	2 
Foldahl	1
Kratka, very cobbly	
Strathcona	
Kratka, depressional Strandquist	
Linveldt	
I39A: Linveldt	5 
Kratka	2 
Reiner	1
Smiley	2
Eckvoll	1

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	Conservation tree/shrub
component name	group
I39A: Foldahl	1
Pelan	,   5 
I41A:	
Markey	10 
Deerwood	10 
Berner	10 
Hamar	2 
Seelyeville	10 1
Syrene	2к 
I42A:	
Markey, ponded	10 
Markey	10
Deerwood	10
Seelyeville, ponded	10
Hamar	2   2
Hangaard	2к 
I43A:	! 
Mavie	2к 
Vallers	2к 
Strandquist	2к 
Strathcona	2к 
Strathcona,	İ
depressional	10 
Foxhome	6G 
Karlsruhe	1 
Grimstad	1K
I44A:	
Newfolden	1
Smiley	)   2 
Boash	2к 
Linveldt	   5 
Hapludolls	1
	•

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and component name	   Conservation   tree/shrub   group
Component name	<u>910up</u>
I45A: Northwood	 
Hamre	   10 
Berner	10
Kratka	2 
Strandquist	2K
Roliss	2K 
I46A:	
Pits	 
Udipsamments	
Radium	
Marquette	5     7
Sandberg	,     7
bundberg	, 
I47A: Poppleton	 
Flaming	1
Garborg	1
Hamar	2 
Radium	1
Ulen	
Maddock	5 
I48A: Radium	   1 
Sandberg	7
Oylen	6G
Flaming	
Garborg	1
Hangaard	
Hamar	
Poppleton	1
I50A: Reiner	   1 
Smiley	2

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	   Conservation   tree/shrub
component name	group
I50A: Reiner, very cobbly	1
Linveldt	   5
Eckvoll	1
Kratka	2
I51A:	
Reiner	1 
Smiley	2 
Reiner fine sandy loam	j 
Linveldt	5 
Kratka	<b>2</b> 
Eckvoll	1
Reiner, very cobbly	1 
I52A: Reis	   2K
Clearwater	2K
Clearwater, very cobbly	2K
Clearwater, depressional	10   10
Espelie	2
Hattie	4C
Wyandotte	2K
I53A: Roliss	2K
Kratka	2
Roliss, very cobbly	2K
Kittson	1
Roliss, depressional	10
Smiley	2
I54A: Roliss, depressional	10
Roliss	2K
Hamre	   10 
Kratka	2

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol   and	Conservation tree/shrub
component name	group
1	
I55A:   Rosewood	2K
Ulen	1K
Hamar	2
Rosewood, depressional	10
Syrene	2K
Karlsruhe	1
Strathcona	2K
Thiefriver	2K
I57B:     Sandberg	7
Radium	1
Sioux	7
Oylen	6G
Flaming	1
Garborg	1
I58A:   Seelyeville	10
Cathro	10
Dora	10
Markey	10
Berner	10
I59A:   Smiley	2
Smiley, very cobbly	2
Kratka	2
Roliss	2K
Reiner	1
Linveldt	5
Smiley, depressional	10
Strandquist	2K
I60A:   Smiley, depressional	10
Smiley	2

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol	Conservation
and	tree/shrub
component name	group
	J
I60A:	
Hamre	10
Kratka	   2
I61A:	
Strandquist	2K
Mavie	   2K
Roliss	2K
Kratka	2
Foxhome	6G 
Hangaard	2K
Northwood	10 
I62A:	
Syrene	2K
Rosewood	 
ROSEWOOD	
Hangaard	2K
Karlsruhe	   1
ital 151 tale	 
Deerwood	10
Hamar	   2
Strandquist	2K
Radium	   1
Wyandotte	2K
I63A:	
Thiefriver	2K
Espelie	 
Espelle	
Foxlake	2K
Huot	   1k
11400	
Clearwater,	
depressional	10
Rosewood	   2K
Ulen	1K
Wyandotte	   2K
TC42	
I64A: Ulen	   1k
01611	±K
Rosewood	2K
	I

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol   and	Conservation tree/shrub
component name	group
I	
I64A:     Flaming	1
Karlsruhe	1
Radium	1
Strathcona	2K
Thiefriver	2K
I65A:     Ulen	1K
Rosewood	2K
Flaming	1
Poppleton	1
Karlsruhe	1
Radium	1
Strathcona	2K
Thiefriver	2K
I66A:     Vallers	2K
Vallers, very cobbly	2K
Hamerly	1K
Grimstad	1K
Mavie	2K
Roliss, depressional	10
Strathcona	2K
I67A:     Wheatville  	1K
Augsburg	2K
Glyndon	1K
Foxlake	2K
Hilaire	1
Ulen	1K
	2K
Foxlake	2K

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol and	   Conservation   tree/shrub
component name	group
I69A: Clearwater, depressional	       10
Thiefriver	   2K
Karlsruhe	   1 
Syrene	2K
I70A: Strathcona	2K
Kratka	2 
Roliss	2K
Grimstad	1K
Mavie	2ĸ 
Rosewood	2K  -
Strathcona, depressional	   10 
I71A: Berner, ponded	 
Cathro, ponded	1   10
Hamre	10
Kratka	2 
Northwood	10 
Roliss	
Seelyeville, ponded	10
I72A: Pelan	   5 
Smiley	2
Linveldt	5 
Kratka	2 
Strandquist	İ
Reiner	İ
Eckvoll	1
I73A: Boash	   2K 
Clearwater	İ
Roliss	2K 

Table 11.--Conservation Tree/Shrub Groups--Continued

Map symbol	Conservation
and	tree/shrub
component name	group
I73A:	
Clearwater,	
depressional	10
Kittson	1
Newfolden	1
I75A:	
Radium	1
Sandberg	7
Garborg	1
_	
Oylen	6G
Flaming	1
Karlsruhe	1
Venlo	
Venio	10
	] 
Hangaard	2K
Sioux	   7
SIOUX	, ,
	l

Table 12.--Hybrid Poplar Management Considerations

(See text for a description of the considerations listed in this table)

Map symbol	Pct. of	
and	map unit	considerations
component name		<u> </u>
I 3109A:		 
Bowstring	45	High content of organic matter Ponding
 		Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
Fluvaquents      	40	Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contaminatior   Wet soil moisture status
Hapludalfs      	5	   Slope   Potential for ground-water contamination   Potential for surface-water contamination   Water erosion   Wind erosion
Seelyeville	5	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   Water  	5	   Not applicable 
3200A:		
Garnes    	70	Lime content   Potential for ground-water contamination   Wind erosion
Chilgren          	13	   Lime content   Limited content of organic matter   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   Eckvoll    	5	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Garnes, very stony    	5	   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Water erosion
Grygla	4	   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Pelan        		   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
   B201A:		
Chilgren	75	   Lime content
i		Limited content of organic matter
į		Potential for ground-water contamination
I		Potential for surface-water contamination
ļ		Wet soil moisture status
!		Wind erosion
   Garnes	9	   Lime content
l l	,	Potential for ground-water contamination
i		Wind erosion
į		
Grygla		Limited available water capacity
!		Potential for ground-water contamination
<u> </u>		Potential for surface-water contamination   Wet soil moisture status
· ·		Wind erosion
i		
Grygla, depressional	5	High content of organic matter
I		Limited available water capacity
!		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
i		Wind erosion
į		
Hamre	5	High content of organic matter
!		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
i		Wind erosion
į		
Pelan		Lime content
<u> </u>		Limited available water capacity
		Potential for ground-water contamination   Wind erosion
i		
B202A:		
Cathro	80	High content of organic matter
		Ponding
		Potential for ground-water contamination   Potential for surface-water contamination
i		Wet soil moisture status
i		Wind erosion
j		
Hamre	8	High content of organic matter
ļ		Ponding    Potential for ground-water gentamination
		Potential for ground-water contamination   Potential for surface-water contamination
ļ		Wet soil moisture status
i		Wind erosion
İ		
Chilgren		Lime content
ļ		Limited content of organic matter
ļ		Potential for ground-water contamination   Potential for surface-water contamination
i		Wet soil moisture status
İ		Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		<u> </u>
B202A:		 
Northwood	3	High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Berner		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Grygla		Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Seelyeville		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
B203A:		
Northwood          	75	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hamre          		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Grygla	7	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Berner		High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Chilgren		Lime content   Lime content   Limited content of organic matter   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
B204A: Roliss	l l 75	   Lime content
ROTIBS	, , , , 	Potential for ground-water contamination
		Potential for surface-water contamination
	İ	Wet soil moisture status
		Wind erosion
Grygla	8	Limited available water capacity
	 	Potential for ground-water contamination   Potential for surface-water contamination
		Wet soil moisture status
	İ	Wind erosion
Chilgren	5	Lime content
		Limited content of organic matter
	l I	Potential for ground-water contamination   Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
	İ	İ
Garnes	5	Lime content
		Potential for ground-water contamination
		Wind erosion
Roliss, depressional	l   5	   High content of organic matter
		Lime content
	İ	Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Hamre	l   2	   High content of organic matter
	İ	Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
B205A:		
Berner	80	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
	İ	Wind erosion
	İ	
Northwood	7	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination Wet soil moisture status
		Wind erosion
	İ	
Grygla	5	Limited available water capacity
		Potential for ground-water contamination
	 	Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
Cathro	3	High content of organic matter
		Ponding
		Potential for ground-water contamination
		1
		Potential for surface-water contamination
		Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol and	Pct. of map unit	Hybrid poplar management considerations
component name		<u> </u>
B205A: Hamre		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Seelyeville		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
B206A:		
Hamre		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Chilgren		Lime content   Limited content of organic matter   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Northwood		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Cathro		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Grygla		Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Roliss		   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
B207A: Pelan		   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Man and 1 - 1	D=+ -5	l
Map symbol and	Pct. of map unit	Hybrid poplar management   considerations
component name	map unic	
B207A: Chilgren	10	Lime content   Limited content of organic matter   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Garnes	10	   Lime content   Potential for ground-water contamination   Wind erosion
Eckvoll	5	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Grygla	5	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
B208A:		
Grygla	75	Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Chilgren	10	Lime content   Limited content of organic matter   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Eckvoll	5	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Grygla, depressional	5	High content of organic matter   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Northwood	5	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
B209A:		<u> </u>
Seelyeville	90	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
B209A:		 
Cathro	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Dora	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Markey		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Berner		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
B210A:		
Eckvoll	70	Limited available water capacity   Potential for ground-water contamination   Wind erosion
Chilgren	12	Lime content   Limited content of organic matter   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Grygla	8	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Garnes	7	   Lime content   Potential for ground-water contamination   Wind erosion
Pelan	3	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
B211A: Berner, ponded		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
   B211A:		
Cathro, ponded	45	   High content of organic matter
I		Ponding
ļ		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Chilgren	2	   Lime content
j		Limited content of organic matter
I		Potential for ground-water contamination
		Potential for surface-water contamination
ļ		Wet soil moisture status
		Wind erosion
Grygla	2	   Limited available water capacity
		Potential for ground-water contamination
į		Potential for surface-water contamination
I		Wet soil moisture status
ļ		Wind erosion
   Hamre	2	   High content of organic matter
	-	Ponding
i		Potential for ground-water contamination
į		Potential for surface-water contamination
I		Wet soil moisture status
ļ		Wind erosion
Northwood	2	   High content of organic matter
1020111000	-	Ponding
i		Potential for ground-water contamination
j		Potential for surface-water contamination
		Wet soil moisture status
ļ		Wind erosion
Seelyeville, ponded	2	   High content of organic matter
		Ponding
İ	i !	Potential for ground-water contamination
ļ		Potential for surface-water contamination
ļ		Wet soil moisture status
IIA:		 
Augsburg	75	Lime content
į		Potential for ground-water contamination
ļ		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
   Borup	10	   Lime content
		Potential for ground-water contamination
İ		Potential for surface-water contamination
I		Wet soil moisture status
ļ		Wind erosion
   Foxlake	5	   Lime content
		Limited available water capacity
i		Potential for ground-water contamination
i		Potential for surface-water contamination
j		Restricted permeability
ļ		Wet soil moisture status
ļ		Wind erosion
         		Potential for surface-water contamina Restricted permeability

Table 12.--Hybrid Poplar Management Considerations--Continued

	Hybrid poplar management
map unit	considerations
<u> </u>	
i !	High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
 	wind erosion
3   	Lime content   Potential for ground-water contamination   Wind erosion
   2   	Lime content   Potential for ground-water contamination   Wind erosion
•	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
	   Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability
į	
80       	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
į	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   5   	Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
İ I	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
İ	   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	:
component name		<u> </u>
T3A: Seelyeville	2	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
		[
I4A: Berner	30	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Rosewood, depressional	30	High content of organic matter Lime content Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Strathcona, depressional		High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Rosewood		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wind erosion
Deerwood	2	High content of organic matter   Lime content   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Mavie		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Strathcona	2	   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I5A: Borup	75	Lime content   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Glyndon	9	   Lime content   Potential for ground-water contamination   Wind erosion
Rosewood		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wind erosion
Augsburg	5	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Augsburg, depressional	3	High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I7A: Bowstring	45	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Fluvaquents		Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Hapludolls	5	Slope   Lime content   Potential for surface-water contamination   Water erosion
Water	5	   Not applicable
j		
ISA: Cathro		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hamre		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and   component name	map unit	considerations
Component name		
18A:		
Northwood		High content of organic matter
		Ponding Potential for ground-water contamination
i		Potential for ground-water contamination  Potential for surface-water contamination
i		Wet soil moisture status
!		Wind erosion
   Roliss	3	Lime content
KOIISS	-	Potential for ground-water contamination
i		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Berner	2	High content of organic matter
i		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination Wet soil moisture status
		Wind erosion
İ		
Kratka	2	Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wind erosion
į į		
Seelyeville		High content of organic matter Ponding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
!		Wet soil moisture status
		Wind erosion
19A:		
Clearwater		Lime content
		Limited available water capacity
i		Potential for ground-water contamination Potential for surface-water contamination
i		Restricted permeability
		Wet soil moisture status
Clearwater, very cobbly	5	Lime content
crearwater, very compression	3	Limited available water capacity
İ		Potential for ground-water contamination
!		Potential for surface-water contamination
		Restricted permeability Wet soil moisture status
		wet soil moisture status
Reis	5	Lime content
!		Limited available water capacity
		Potential for ground-water contamination Restricted permeability
i		Wet soil moisture status
j		
Clearwater, depressional		High content of organic matter
		Lime content Ponding
		Potential for ground-water contamination
		_
i		Potential for surface-water contamination
		Potential for surface-water contamination Restricted permeability Wet soil moisture status

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
   I9A:		 
Espelie	3	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Foxlake		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion
Hattie    	1	Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability
Huot	1	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
I11A:		
Deerwood          	85	High content of organic matter   Lime content   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Rosewood	6	Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wind erosion
Markey	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Strathcona		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Syrene          		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I		
IllA: Venlo	2	High content of organic matter   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
i		Wind erosion
i		İ
I12A:   Eckvoll	70	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
	8	   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Smiley       	7	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Linveldt	5	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Reiner	5	   Lime content   Potential for ground-water contamination   Wind erosion
Foldahl    	2	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
   Pelan      	2	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Poppleton    	1	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
I13A: Espelie	75	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Foxlake            	8	Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion
Hilaire  	7	   Limited available water capacity   Potential for ground-water contamination   Wind erosion 

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
7133		
I13A: Clearwater, depressional	l I 5	   High content of organic matter
Clearwater, depressionar	, , 	Lime content
		Ponding
	İ	Potential for ground-water contamination
		Potential for surface-water contamination
		Restricted permeability
		Wet soil moisture status
Thiefriver	l I 5	   Lime content
1111611161	-	Limited available water capacity
	•	Potential for ground-water contamination
	İ	Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
I15A:		] 
Flaming	l l 70	   Limited available water capacity
	''	Potential for ground-water contamination
		Wind erosion
	İ	İ
Garborg	10	Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
Hamar	l l 5	   Limited available water capacity
		Potential for ground-water contamination
	İ	Potential for surface-water contamination
		Wind erosion
**1		L ***
Ulen		Lime content   Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
	ĺ	
Poppleton	3	Limited available water capacity
		Potential for ground-water contamination   Wind erosion
		wind erosion
Sandberg	3	Slope
		Lime content
		Limited available water capacity
		Potential for ground-water contamination
	 	Wind erosion
Foldahl	l   2	   Limited available water capacity
	İ	Potential for ground-water contamination
		Wind erosion
Radium	2	Limited available water capacity   Potential for ground-water contamination
		Wind erosion
I16F:	ĺ	
Fluvaquents	•	Limited available water capacity
		Ponding
	•	Potential for ground-water contamination   Potential for surface-water contamination
	 	Wet soil moisture status
	i	
Hapludolls	25	Slope
		Lime content
		Potential for surface-water contamination
	 	Water erosion
	ı	I

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		<u> </u>
I16F:		
Hapludalfs        	7	Slope   Potential for ground-water contamination   Potential for surface-water contamination   Water erosion   Wind erosion
Fairdale	5	   Slope   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Water erosion   Wind erosion
	5	   Not applicable 
Bowstring	2	High content of organic matter
		Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Rauville	1	Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I17A:		
Foldahl	75	Limited available water capacity   Potential for ground-water contamination   Wind erosion
Kratka	10	Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Roliss	5	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Flaming	4	Limited available water capacity   Potential for ground-water contamination   Wind erosion
   Grimstad    	2	   Lime content   Potential for ground-water contamination   Wind erosion
Linveldt      	2	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
   Eckvoll    	1	   Limited available water capacity   Potential for ground-water contamination   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I17A:		 
Strathcona		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I18A:		 
Foldahl		Limited available water capacity   Potential for ground-water contamination   Wind erosion
Kratka	10	Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Roliss		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Flaming	4	Limited available water capacity   Potential for ground-water contamination   Wind erosion
Grimstad	2	   Lime content   Potential for ground-water contamination   Wind erosion
Linveldt    		   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Eckvoll		   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Strathcona		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I19A: Foxhome	65	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Kittson	10	   Lime content   Potential for ground-water contamination
Strandquist        	10	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Foldahl    	5	   Limited available water capacity   Potential for ground-water contamination   Wind erosion 

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and   component name	map unit	considerations
Component name		L
I19A:		
Grimstad  	5	Lime content   Potential for ground-water contamination   Wind erosion
Roliss      		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Mavie            		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I20A:		
Foxlake          	75	Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion
Clearwater  	5	   Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status
Foxlake, very cobbly		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion
Augsburg        	3	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Clearwater, depressional        		High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status
Espelie        		Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol and component name	Pct. of map unit	Hybrid poplar management considerations
		l
I20A: Hilaire	2	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Reis		Lime content   Limited available water capacity   Potential for ground-water contamination   Restricted permeability   Wet soil moisture status
Wheatville	2	   Lime content   Potential for ground-water contamination   Wind erosion 
122A:		
Glyndon	75	Lime content   Potential for ground-water contamination   Wind erosion
Borup		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Augsburg	5	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Ulen	5	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Wheatville		Lime content   Potential for ground-water contamination   Wind erosion
Flaming	2	Limited available water capacity   Potential for ground-water contamination   Wind erosion
I24A:		
Grimstad	70	Lime content   Potential for ground-water contamination   Wind erosion
Strathcona		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Foldahl	5	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Hamerly	5	   Lime content   Potential for ground-water contamination   Wind erosion
l		I

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	
component name		
124A:		
Foxhome	2	Lime content
		Limited available water capacity   Potential for ground-water contamination
		Wind erosion
Karlsruhe	2	Lime content
		Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
Mavie	l   2	   Lime content
		Limited available water capacity
	ĺ	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Ulen	   2	   Lime content
	İ	Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
I25A:	] 	 
Hamar	l l 75	   Limited available water capacity
		Potential for ground-water contamination
	İ	Potential for surface-water contamination
		Wind erosion
Carbona	   10	   Timited available water garagity
Garborg	1 10	Limited available water capacity   Potential for ground-water contamination
		Wind erosion
	İ	İ
Rosewood	7	Lime content
		Limited available water capacity   Potential for ground-water contamination
		Potential for surface-water contamination
		Wind erosion
	İ	İ
Venlo	3	High content of organic matter
		Limited available water capacity
		Ponding   Potential for ground-water contamination
		Potential for surface-water contamination
	İ	Wet soil moisture status
	l	Wind erosion
Diamin -	   2	 
Flaming	4 	Limited available water capacity   Potential for ground-water contamination
	İ	Wind erosion
	ĺ	
Hangaard		Lime content
		Limited available water capacity
		Potential for ground-water contamination   Potential for surface-water contamination
	 	Wet soil moisture status
	İ	Wind erosion
	l	
Kratka	•	Potential for ground-water contamination
		Potential for surface-water contamination
	 	Wet soil moisture status   Wind erosion
	i i	
	•	•

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		<u> </u>
I26A:		 
Hamerly	75	Lime content
İ		Potential for ground-water contamination
		Wind erosion
Vallers	12	   Lime content
Vallers		Potential for ground-water contamination
İ		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Foxhome	3	   Lime content
		Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
Grimstad	3	   Lime content
		Potential for ground-water contamination
		Wind erosion
Hamerly, very cobbly	3	   Lime content
namerry, very cobbry		Potential for ground-water contamination
İ		Wind erosion
Strathcona		Lime content   Potential for ground-water contamination
		Potential for surface-water contamination
İ		Wet soil moisture status
		Wind erosion
Roliss, depressional	1	   High content of organic matter
		Lime content
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
j		
127A:		
Hamre	80	High content of organic matter   Ponding
		Potential for ground-water contamination
İ		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Northwood	5	High content of organic matter
İ		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wind erosion
j		
Roliss		Lime content
· ·		Potential for ground-water contamination  Potential for surface-water contamination
i		Wet soil moisture status
j		Wind erosion
Smiley	5	Lime content
SWITTEA		Lime content   Potential for ground-water contamination
i		Potential for surface-water contamination
		Wet soil moisture status
		I

Table 12.--Hybrid Poplar Management Considerations--Continued

and map unit considerations    Tell of component name   Tell of considerations	Map symbol	Pct. of	Hybrid poplar management
Component name	:		
State   Stat	:		
State   Stat			
Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion	127A:		
Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion  Fratka	Cathro	-	•
Potential for surface-water contamination Wet soil moisture status Wind erosion  Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion  132A:  Nilaire			3
Wet soil moisture status   Wind erosion			_
Wind erosion	· ·		•
Potential for surface-water contamination   Wet soil moisture status   Wind erosion	i		
Potential for surface-water contamination   Wet soil moisture status   Wind erosion	į		
Wet soil moisture status   Wind erosion	Kratka	2	Potential for ground-water contamination
Wind erosion	!		•
Limited available water capacity   Potential for ground-water contamination   Wind erosion			
Hilaire			wind erosion
Potential for ground-water contamination Wind erosion	I32A:		 
Wind erosion	Hilaire	75	Limited available water capacity
Espelie	İ		Potential for ground-water contamination
Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion  Flaming	Į.		Wind erosion
Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion  Flaming		1.0	
Potential for surface-water contamination Wet soil moisture status Wind erosion  Lime content Limited available water capacity Potential for ground-water contamination Wind erosion  Flaming	Espelle		
Wind erosion	i		
Huot	i		Wet soil moisture status
Limited available water capacity   Potential for ground-water contamination   Wind erosion	i		Wind erosion
Limited available water capacity   Potential for ground-water contamination   Wind erosion	I	j.	
Potential for ground-water contamination Wind erosion  2 Limited available water capacity Potential for ground-water contamination Wind erosion  Foxlake	Huot	-	
Wind erosion			
Flaming	· ·		
Potential for ground-water contamination Wind erosion  2	i		Wild Clopion
Wind erosion	Flaming	2	Limited available water capacity
Foxlake	I		Potential for ground-water contamination
Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion    Wheatville	!		Wind erosion
Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion    Wheatville	For lake	2	   Lime content
Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion    Wheatville	CAIARE		
Restricted permeability   Wet soil moisture status   Wind erosion	i		
Wet soil moisture status   Wind erosion	j		Potential for surface-water contamination
Wheatville	Į.		
Wheatville	!		•
Potential for ground-water contamination   Wind erosion	ļ		Wind erosion
Potential for ground-water contamination   Wind erosion	Wheatville	2	   Lime content
Thiefriver			
Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion      Wyandotte	į		Wind erosion
Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion      Wyandotte	<u> </u>		
Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion      Wyandotte	Thiefriver		•
Potential for surface-water contamination   Wet soil moisture status   Wind erosion   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status			
Wet soil moisture status   Wind erosion	ļ		
	i		•
Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status	į	Į.	Wind erosion
Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status	<u> </u>		
Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status	Wyandotte		
Potential for surface-water contamination Wet soil moisture status			
Wet soil moisture status	<u> </u>		
· · ·	i		•
I I	i		•
	I		

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
Huot	75	   Lime content
huoc	/3	Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
Thiefriver	12	Lime content
j		Limited available water capacity
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Hilaire	5	   Limited available water capacity
niiaiie		Potential for ground-water contamination
		Wind erosion
i		
Flaming	3	Limited available water capacity
į		Potential for ground-water contamination
		Wind erosion
Foxlake		Lime content
		Limited available water capacity
		Potential for ground-water contamination   Potential for surface-water contamination
		Restricted permeability
		Wet soil moisture status
		Wind erosion
İ		
Ulen	2	Lime content
		Limited available water capacity
		Potential for ground-water contamination   Wind erosion
		Wind erosion
136A:		
Kittson	70	Lime content
		Potential for ground-water contamination
Roliss		Lime content
		Potential for ground-water contamination   Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
j		
Hamerly	5	Lime content
		Potential for ground-water contamination
		Wind erosion
Venetire		
Kratka	5	Potential for ground-water contamination   Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
j		
Grimstad	3	Lime content
İ		Potential for ground-water contamination
<u> </u>		Wind erosion
Characterists		
Strandquist		Lime content   Potential for ground-water contamination
		Potential for ground-water contamination  Potential for surface-water contamination
		1 - 000merer for Sarrace water contamination
		Wet soil moisture status
		Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I36A:		
Foxhome		Lime content
		Limited available water capacity
		Potential for ground-water contamination   Wind erosion
		Hind elosion
I38A:		
Kratka	70	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Smiley		Lime content
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Foldahl	5	
FOIGAIII		Limited available water capacity   Potential for ground-water contamination
		Wind erosion
Kratka, very cobbly	5	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Strathcona	-	Lime content
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Kratka, depressional	3	   High content of organic matter
Mideria, depressionar		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Strandquist		Lime content
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status   Wind erosion
		Wind erosion
Linveldt	2	   Lime content
	_	Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
I39A:		
Linveldt	65	Lime content
		Limited available water capacity
	 	Potential for ground-water contamination
		Wind erosion
Kratka	14	   Potential for ground-water contamination
112 40114		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Reiner	10	Lime content
		Potential for ground-water contamination
		Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I39A:	-	Lime content
Smiley	5	Lime content   Potential for ground-water contamination
· ·		Potential for ground-water contamination
· ·		Wet soil moisture status
i		
Eckvoll	3	Limited available water capacity
j		Potential for ground-water contamination
I		Wind erosion
I		
Foldahl	2	Limited available water capacity
!		Potential for ground-water contamination
ļ		Wind erosion
   Pelan	1	   Time gentent
Pelan	_	Lime content   Limited available water capacity
· ·		Potential for ground-water contamination
i		Wind erosion
i		
I41A:		
Markey	80	High content of organic matter
I		Ponding
I		Potential for ground-water contamination
ļ		Potential for surface-water contamination
		Wet soil moisture status
ļ		Wind erosion
   Deerwood	12	Uich content of organic matter
Deel wood	12	High content of organic matter   Lime content
· ·		Limited available water capacity
i		Ponding
i		Potential for ground-water contamination
į		Potential for surface-water contamination
İ		Wet soil moisture status
I		Wind erosion
!		
Berner		High content of organic matter
ļ		Ponding
		Potential for ground-water contamination   Potential for surface-water contamination
· ·		Potential for surface-water contamination   Wet soil moisture status
· ·		Wind erosion
i		
Hamar	2	Limited available water capacity
j		Potential for ground-water contamination
I		Potential for surface-water contamination
I		Wind erosion
Seelyeville		High content of organic matter
ļ		Ponding
ļ		Potential for ground-water contamination
ļ		Potential for surface-water contamination   Wet soil moisture status
l I		Wet soil moisture status   Wind erosion
i i		
	2	   Lime content
		Limited available water capacity
i		Potential for ground-water contamination
i		Potential for surface-water contamination
į		Wet soil moisture status
ĺ		Wind erosion
I		

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		<u> </u>
ļ.		
142A:	0-	
Markey, ponded	85	High content of organic matter
		Ponding    Potential for ground-water contamination
<u> </u>		Potential for ground-water contamination   Potential for surface-water contamination
i		Wet soil moisture status
i		
Markey	5	High content of organic matter
i		Ponding
I		Potential for ground-water contamination
I		Potential for surface-water contamination
		Wet soil moisture status
!		Wind erosion
Paramana d	4	   Tick
Deerwood	=	High content of organic matter   Lime content
· ·		Limited available water capacity
i		Ponding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
I		Wet soil moisture status
I		Wind erosion
Seelyeville, ponded	4	High content of organic matter
		Ponding
		Potential for ground-water contamination   Potential for surface-water contamination
i		Wet soil moisture status
i		
Hamar	1	Limited available water capacity
İ		Potential for ground-water contamination
I		Potential for surface-water contamination
ļ.		Wind erosion
***************************************		
Hangaard		Lime content   Limited available water capacity
· ·		Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wet soil moisture status
i		Wind erosion
Ī		
143A:	<b></b>	 
Mavie	70	Lime content
		Limited available water capacity
		Potential for ground-water contamination   Potential for surface-water contamination
· ·		Wet soil moisture status
i		Wind erosion
i		
Vallers	10	Lime content
I		Potential for ground-water contamination
!		Potential for surface-water contamination
!		Wet soil moisture status
ļ		Wind erosion
   Strandquist	7	   Lime content
		Potential for ground-water contamination
i		Potential for surface-water contamination
i		Wet soil moisture status
i		Wind erosion
İ		

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
   I43A:		 
Strathcona	5	Lime content   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Strathcona, depressional            		High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   Foxhome     		   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Karlsruhe		   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Grimstad	1	   Lime content   Potential for ground-water contamination   Wind erosion
I44A:		! 
Newfolden      	75	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability
Smiley       	12	   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Boash	8	Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Wet soil moisture status
Linveldt	4	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Hapludolls      		   Slope   Lime content   Potential for surface-water contamination   Water erosion
I45A: Northwood         		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I45A:		
Hamre	10	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Berner	5	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Kratka	5	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
	_	
Strandquist	3	Lime content
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Palina	2	
Roliss		Lime content
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
I46A:		
Pits	85	   Not applicable
1 105	03	Not applicable
Udipsamments	10	Slope
- i		Limited available water capacity
		Limited content of organic matter
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wind erosion
Radium	2	Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
Maddock	1	Slope
		Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
Marquette	1	Slope
		Lime content
		Limited available water capacity
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wind erosion
- "		
Sandberg		Slope
		Lime content
		Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
l l		I

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		1
Poppleton	75	Limited available water capacity   Potential for ground-water contamination   Wind erosion
Flaming	12	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Garborg	5	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Hamar	3	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wind erosion
Radium	2	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Ulen	2	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Maddock	1	   Slope   Limited available water capacity   Potential for ground-water contamination   Wind erosion
I48A:		
Radium	75	Limited available water capacity   Potential for ground-water contamination   Wind erosion
Sandberg		   Slope   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Oylen	5	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Flaming	4	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Garborg	3	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Hangaard		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		<u> </u> 
I48A:		
Hamar      	2	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wind erosion
Poppleton	1	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
I50A:		
Reiner	70	Lime content   Potential for ground-water contamination   Wind erosion
Smiley	12	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Reiner, very cobbly	7	Lime content   Potential for ground-water contamination   Wind erosion
Linveldt	5	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Eckvoll	3	Limited available water capacity   Potential for ground-water contamination   Wind erosion
Kratka	3	   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I51A: Reiner	65	   Lime content   Potential for ground-water contamination   Wind erosion
Smiley      	9	   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Reiner fine sandy loam	8	Lime content   Potential for ground-water contamination   Wind erosion
Linveldt      	7	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
   Kratka      	5	   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I51A:   Eckvoll	3	   Limited available water capacity   Potential for ground-water contamination
İ		Wind erosion
Reiner, very cobbly	3	Lime content
		Potential for ground-water contamination   Wind erosion 
I52A:		
Reis        	55	Lime content   Limited available water capacity   Potential for ground-water contamination   Restricted permeability   Wet soil moisture status
Clearwater        	30	Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status
Clearwater, very cobbly	5	Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status
Clearwater, depressional	3	High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status
Espelie      		Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Hattie	3	Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability
Wyandotte              		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I53A:   Roliss		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I		
I53A:		
Kratka	8	Potential for ground-water contamination
!		Potential for surface-water contamination
!		Wet soil moisture status
!		Wind erosion
P-14	-	 
Roliss, very cobbly		Lime content
ļ		Potential for ground-water contamination   Potential for surface-water contamination
<u> </u>		Wet soil moisture status
· ·		Wind erosion
i		
Kittson	5	Lime content
		Potential for ground-water contamination
i		
Roliss, depressional	3	High content of organic matter
i		Lime content
i		Ponding
i		Potential for ground-water contamination
į		Potential for surface-water contamination
i		Wet soil moisture status
į		
Smiley	2	Lime content
I		Potential for ground-water contamination
I		Potential for surface-water contamination
ļ		Wet soil moisture status
I54A:	0.0	l with and only of annuals making
Roliss, depressional	80	High content of organic matter
 		Lime content
		Ponding
<u> </u>		Potential for ground-water contamination   Potential for surface-water contamination
· ·		Wet soil moisture status
i		
Roliss	12	Lime content
į		Potential for ground-water contamination
į		Potential for surface-water contamination
İ		Wet soil moisture status
I		Wind erosion
I		
Hamre	5	High content of organic matter
		Ponding
!		Potential for ground-water contamination
!		Potential for surface-water contamination
		Wet soil moisture status
ļ		Wind erosion
   Kratka	3	
NI QUKA	3	Potential for ground-water contamination   Potential for surface-water contamination
-		Potential for surface-water contamination   Wet soil moisture status
ļ		Wind erosion
i		- <del></del>
I55A:		İ
Rosewood	75	Lime content
i		Limited available water capacity
i		Potential for ground-water contamination
i		Potential for surface-water contamination
į		Wind erosion
į		
Ulen	10	Lime content
İ		Limited available water capacity
I		Potential for ground-water contamination
I		Wind erosion
I		
·		

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol and component name	Pct. of map unit	Hybrid poplar management considerations
I55A: Hamar	6   	Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wind erosion
Rosewood, depressional		High content of organic matter   Lime content   Limited available water capacity   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Syrene		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Karlsruhe	1	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Strathcona	1	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Thiefriver		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I57B:		[ ]
Sandberg	50   	Slope   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Radium	25 	Limited available water capacity   Potential for ground-water contamination   Wind erosion
Sioux	8	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Oylen	7   7	Limited available water capacity   Potential for ground-water contamination   Wind erosion
Flaming	   5 	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
	ı	ı

Table 12.--Hybrid Poplar Management Considerations--Continued

	l n=1 5	l
Map symbol	Pct. of	
and component name	map unit	Considerations
Component name		l
I57B:		 
Garborg	5	Limited available water capacity   Potential for ground-water contamination   Wind erosion
I58A:		
Seelyeville	90     	High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Cathro	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Dora	3	High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Markey	3	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Berner	1	High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I59A:	İ	
Smiley	65   	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Smiley, very cobbly	İ	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Kratka	9	Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Roliss	İ	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I59A:		 
Reiner	4	Lime content   Potential for ground-water contamination
	[ [	Wind erosion
Linveldt		Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Smiley, depressional		High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Strandquist		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I60A: Smiley, depressional		High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Smiley		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Hamre		High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Kratka	5	Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I61A: Strandquist		   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Mavie		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
7613		
I61A: Roliss         		   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   Kratka        		   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Foxhome		Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Hangaard              		   Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Northwood        		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I62A:		 
Syrene		   Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Rosewood		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wind erosion
Hangaard            		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
   Karlsruhe        		   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I62A:		
Deerwood	3	   High content   Lime content   Limited available water capacity   Ponding   Potential for ground-water contamination
		Potential for surface-water contamination Wet soil moisture status Wind erosion
Hamar	3	Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wind erosion
Strandquist		Lime content Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Radium	1	Limited available water capacity Potential for ground-water contamination Wind erosion
Wyandotte		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I63A: Thiefriver	70	Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Espelie		Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Foxlake		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion
Huot		   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Content of organic matter content of organic matter content  ag cial for ground-water contamination cial for surface-water contamination cited permeability coll moisture status  content ed available water capacity cial for ground-water contamination cial for surface-water contamination cial for surface-water contamination content ed available water capacity cial for ground-water contamination content ed available water capacity cial for ground-water contamination content co
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Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name	<u> </u>	
I65A:	 	] 
Ulen	l l 70	   Lime content
01011	, , , , , , , , , , , , , , , , , , ,	Limited available water capacity
	İ	Potential for ground-water contamination
	İ	Wind erosion
Rosewood	!	Lime content
	:	Limited available water capacity   Potential for ground-water contamination
	! [	Potential for surface-water contamination
		Wind erosion
	İ	
Flaming	:	Limited available water capacity
		Potential for ground-water contamination
	 	Wind erosion
Poppleton	I I 4	   Limited available water capacity
	· -	Potential for ground-water contamination
	İ	Wind erosion
	l	
Karlsruhe	!	Lime content
	l I	Limited available water capacity
	 	Potential for ground-water contamination   Wind erosion
Radium	3	Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
Strathcona	l l 2	   Lime content
beraciicona	!	Potential for ground-water contamination
	•	Potential for surface-water contamination
	İ	Wet soil moisture status
		Wind erosion
Thiefriver	l l 2	   Lime content
11116111461	!	Limited available water capacity
	:	Potential for ground-water contamination
	ĺ	Potential for surface-water contamination
	l	Wet soil moisture status
	 	Wind erosion
I66A:	 	 
Vallers	75	Lime content
	İ	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
	 	Wind erosion
Vallers, very cobbly	   7	Lime content
	İ	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
	 	Wind erosion
Hamerly	l   6	   Lime content
	!	Potential for ground-water contamination
	l	Wind erosion
Grimstad	!	Lime content
	•	Potential for ground-water contamination   Wind erosion
	İ	
	•	•

Table 12.--Hybrid Poplar Management Considerations--Continued

Man gymbol	Pct. of	Hybrid poplar management
Map symbol   and	map unit	
component name	map and	
I66A:		
Mavie          		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Roliss, depressional		High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Strathcona          	3	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I67A:		
Wheatville      	70	Lime content   Potential for ground-water contamination   Wind erosion
Augsburg        		Lime content     Potential for ground-water contamination     Potential for surface-water contamination     Wet soil moisture status     Wind erosion
Glyndon    	8	Lime content Potential for ground-water contamination Wind erosion
Foxlake                		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion
   Hilaire    	2	   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Ulen      	2	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
I69A: 		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		1
I69A:		 
Foxlake		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status   Wind erosion
Espelie		Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Clearwater, depressional		High content of organic matter   Lime content   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status
Thiefriver		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Karlsruhe	4	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Syrene		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
I70A: Strathcona	70	Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Kratka		Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Roliss		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Grimstad		   Lime content   Potential for ground-water contamination   Wind erosion 

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
I70A:		
Mavie	3	Lime content
		Limited available water capacity
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Rosewood	3	Lime content
		Limited available water capacity
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wind erosion
Strathcona, depressional	3	High content of organic matter
		Lime content
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
171A:	45	 
Berner, ponded	45	High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Cathro, ponded	45	   High content of organic matter
cacinto, ponaca	-	Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
Hamre	2	High content of organic matter
		Lime content
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
į		Wet soil moisture status
İ		Wind erosion
Kratka	2	Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Northwood		High content of organic matter
		Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
		Wet soil moisture status
		Wind erosion
Palina	_	
Roliss		Lime content
	] 	Potential for ground-water contamination
		Potential for surface-water contamination   Wet soil moisture status
		Wet soil moisture status   Wind erosion
	I	I

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
T713.		1
I71A: Seelyeville, ponded		High content of organic matter   Ponding   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
I72A:		
Pelan	65	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Smiley		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status
Linveldt	8	Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
Kratka	5	Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Strandquist		   Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion
Reiner	4	Lime content   Potential for ground-water contamination   Wind erosion
Eckvoll	3	Limited available water capacity   Potential for ground-water contamination   Wind erosion
I73A:		 
Boash	75	Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Wet soil moisture status
Clearwater		Lime content   Limited available water capacity   Potential for ground-water contamination   Potential for surface-water contamination   Restricted permeability   Wet soil moisture status
Roliss		Lime content   Potential for ground-water contamination   Potential for surface-water contamination   Wet soil moisture status   Wind erosion

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
ļ		
173A:	_	
Clearwater, depressional	5	High content of organic matter
		Lime content   Ponding
		Potential for ground-water contamination
		Potential for surface-water contamination
i		Restricted permeability
i		Wet soil moisture status
j		
Kittson	2	Lime content
		Potential for ground-water contamination
Newfolden	2	Lime content
		Potential for ground-water contamination   Potential for surface-water contamination
		Restricted permeability
i		
I74A:		
Urban land	65	Not applicable
ļ		
Endoaquents	35	Onsite investigation required
T753 -		 
I75A:   Radium	40	   Limited available water capacity
Radium	40	Potential for ground-water contamination
i		Wind erosion
i		
Sandberg	20	Slope
I		Lime content
		Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
 	15	   Limited available water capacity
Carborg	13	Potential for ground-water contamination
į		Wind erosion
I		
Oylen	10	Limited available water capacity
		Potential for ground-water contamination
		Wind erosion
   Flaming	5	   Limited available water capacity
1 10001119	3	Potential for ground-water contamination
i		Wind erosion
j		
Karlsruhe	3	Lime content
		Limited available water capacity
ļ		Potential for ground-water contamination
ļ		Wind erosion
   Venlo	3	   High content of organic matter
veiito	3	Limited available water capacity
		Ponding
i		Potential for ground-water contamination
i		Potential for surface-water contamination
į		Wet soil moisture status
İ		Wind erosion
_		
Hangaard	2	Lime content
		Limited available water capacity
ļ		Potential for ground-water contamination   Potential for surface-water contamination
l I		Wet soil moisture status
ļ		Wind erosion
i		
I		ı

Table 12.--Hybrid Poplar Management Considerations--Continued

Map symbol	Pct. of	Hybrid poplar management
and	map unit	considerations
component name		
   I75A:		
Sioux	2	   Lime content   Limited available water capacity   Potential for ground-water contamination   Wind erosion
M-W: Miscellaneous water	100	   Not applicable
W:     Water	100	   Not applicable

Table 13.--Forest Land Harvest Equipment Considerations

(Only the map units that have soils suitable for forest production are listed. See text for a description of the considerations listed in this table)

Map symbol	Pct. of	Forest land harvest equipment
and	map unit	
component name		
B200A:		
Garnes	70	Susceptible to rutting and wheel slippage
		Poor traction (loose sandy material)
i		
Chilgren	13	Wetness
i		Susceptible to rutting and wheel slippage
i		
Eckvoll	5	Poor traction (loose sandy material)
i		
Garnes, very stony	5	Susceptible to rutting and wheel slippage
		Poor traction (loose sandy material)
I		
Grygla	4	Wetness
I		Poor traction (loose sandy material)
I		
Pelan	3	Susceptible to rutting and wheel slippage
I		Poor traction (loose sandy material)
I		
B201A:		
Chilgren	75	Wetness
!		Susceptible to rutting and wheel slippage
_		
Garnes	9	Susceptible to rutting and wheel slippage
		Poor traction (loose sandy material)
  Grygla	-	 
Grygia	5	Wetness
<u> </u>		Poor traction (loose sandy material)
Grygla, depressional	5	   Wetness
Grygia, depressionar	3	Poor traction (loose sandy material)
i		
Hamre	5	Wetness
i		Susceptible to rutting and wheel slippage
i		
Pelan	1	Susceptible to rutting and wheel slippage
		Poor traction (loose sandy material)
I		
B202A:		
Cathro	80	Wetness
I		Susceptible to rutting and wheel slippage
ļ		
Hamre	8	Wetness
!		Susceptible to rutting and wheel slippage
eth d 1 mm and	•	 
Chilgren	3	Wetness
ļ		Susceptible to rutting and wheel slippage
Northwood	3	   Wotness
MOT CITMOOG	3	Wetness   Susceptible to rutting and wheel slippage
		Poor traction (loose sandy material)
ļ.		
Berner	2	   Wetness
	_	Susceptible to rutting and wheel slippage
i		
Grygla	2	
	- -	Poor traction (loose sandy material)
i		
Seelyeville	2	Wetness
i		Susceptible to rutting and wheel slippage
i		1

Table 13.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Pct. of	Forest land harvest equipment
and	map unit	considerations
component name		
B203A:	İ	
Northwood	l l 75	   Wetness
		Susceptible to rutting and wheel slippage
	İ	Poor traction (loose sandy material)
Hamre	10	Wetness
		Susceptible to rutting and wheel slippage
Grygla	l l 7	   Wetness
- 15		Poor traction (loose sandy material)
Berner	5	Wetness
		Susceptible to rutting and wheel slippage
Chilgren	l I 3	   Wetness
onii gi on		Susceptible to rutting and wheel slippage
B204A:		
Roliss	75	Wetness
		Susceptible to rutting and wheel slippage
Grygla	l 8	   Wetness
		Poor traction (loose sandy material)
	j	
Chilgren	5	Wetness
		Susceptible to rutting and wheel slippage
Garnes	l 5	   Susceptible to rutting and wheel slippage
Gaines	] 	Poor traction (loose sandy material)
Roliss, depressional	5	Wetness
		Susceptible to rutting and wheel slippage
**		
Hamre	2	Wetness   Susceptible to rutting and wheel slippage
B205A:	j	
Berner	80	Wetness
		Susceptible to rutting and wheel slippage
Northwood	l I 7	   Wetness
NOT CHWOOD	, 	Susceptible to rutting and wheel slippage
	İ	Poor traction (loose sandy material)
Grygla	5	Wetness
		Poor traction (loose sandy material)
Cathro	l   3	   Wetness
	İ	Susceptible to rutting and wheel slippage
Hamre	3	Wetness
		Susceptible to rutting and wheel slippage
Seelyeville	l l 2	   Wetness
	_	Susceptible to rutting and wheel slippage
	l	
B206A:		
Hamre	80	Wetness
		Susceptible to rutting and wheel slippage
Chilgren	l   8	   Wetness
-	İ	Susceptible to rutting and wheel slippage

Table 13.--Forest Land Harvest Equipment Considerations--Continued

Map symbol and	Pct. of	
component name	map unit	considerations
Component name		
B206A:		
Northwood	5	Wetness
		Susceptible to rutting and wheel slippage
		Poor traction (loose sandy material)
Cathro	3	Wetness
	 	Susceptible to rutting and wheel slippage
Grygla	l l 2	   Wetness
		Poor traction (loose sandy material)
İ	ĺ	
Roliss	2	Wetness
		Susceptible to rutting and wheel slippage
70057		
B207A: Pelan	l l 70	   Susceptible to rutting and wheel slippage
retair	, , , , , , , , , , , , , , , , , , ,	Poor traction (loose sandy material)
Chilgren	10	Wetness
İ	ĺ	Susceptible to rutting and wheel slippage
Garnes	10	Susceptible to rutting and wheel slippage
	l I	Poor traction (loose sandy material)
Eckvoll	l l 5	   Poor traction (loose sandy material)
2011/011	,	
Grygla	5	Wetness
		Poor traction (loose sandy material)
B208A:	l l 75	Water and
Grygla	/5 	Wetness   Poor traction (loose sandy material)
Chilgren	10	Wetness
		Susceptible to rutting and wheel slippage
Eckvol1	5	Poor traction (loose sandy material)
Cryala depressional	l l 5	   Wetness
Grygla, depressional	] 3	Poor traction (loose sandy material)
		roor craction (roose sandy material)
Northwood	5	Wetness
İ	ĺ	Susceptible to rutting and wheel slippage
		Poor traction (loose sandy material)
70107		
B210A: Eckvoll	   70	
ECVAOTT	, , , , , , , , , , , , , , , , , , ,	Poor traction (loose sandy material) 
Chilgren	12	   Wetness
-	İ	Susceptible to rutting and wheel slippage
İ		
Grygla	8	Wetness
		Poor traction (loose sandy material)
Carnog	 	   Suggestible to rutting and wheel ali
Garnes	7 I	Susceptible to rutting and wheel slippage   Poor traction (loose sandy material)
Pelan	   3	   Susceptible to rutting and wheel slippage
j	İ	Poor traction (loose sandy material)
İ		

Table 13.--Forest Land Harvest Equipment Considerations--Continued

Pct. of	Forest land harvest equipment
map unit	considerations
45	Wetness   Susceptible to rutting and wheel slippage
45	   Wetness   Susceptible to rutting and wheel slippage
2	   Wetness   Susceptible to rutting and wheel slippage
2	   Wetness   Poor traction (loose sandy material)
2	   Wetness   Susceptible to rutting and wheel slippage
2	   Wetness   Susceptible to rutting and wheel slippage   Poor traction (loose sandy material)
2	   Wetness   Susceptible to rutting and wheel slippage 
	45 45 2 2 2

Table 14.--Forest Haul Road Considerations

(Only the map units that have soils suitable for forest production are listed. See text for a description of the considerations listed in this table)

Map symbol	Pct. of	Forest haul road
and	map unit	considerations
component name		
B200A:	70	 
Garnes	70	Low bearing strength
Chilgren	13	   Wetness
Chiigien	13	Low bearing strength
i		now bearing screngen
Eckvoll	5	No major considerations
i		
Garnes, very stony	5	Low bearing strength
I		
Grygla	4	Wetness
Pelan	3	Low bearing strength
B201A:		 
Chilgren	75	   Wetness
- I	,,,	Low bearing strength
i		
Garnes	9	Low bearing strength
I		
Grygla	5	Wetness
Grygla, depressional	5	Wetness
   Hamre	-	   Wetness
Hamre	5	wetness   Low bearing strength
· ·		now bearing screngen
Pelan	1	Low bearing strength
i		
B202A:		İ
Cathro	80	Wetness
ļ		Low bearing strength
Hamre	8	Wetness
		Low bearing strength
Chilgren	3	   Wetness
		Low bearing strength
į		
Northwood	3	Wetness
ļ		Low bearing strength
!		
Berner	2	Wetness
		Low bearing strength
  Grygla	2	   Wetness
013910	-	
Seelyeville	2	Wetness
j		Low bearing strength
Ī		
B203A:		
Northwood	75	Wetness
ļ		Low bearing strength
   Hamre	10	   Wetness
паш 6	10	wetness   Low bearing strength
ļ		
_	_	! !
Grygla	7	Wetness

Table 14.--Forest Haul Road Considerations--Continued

Map symbol	Pct. of	Forest haul road
and	map unit	considerations
component name	l	<u> </u> 
B203A:	! 	 
Berner	,   5	Wetness
	ĺ	Low bearing strength
	l	
Chilgren	3	Wetness
		Low bearing strength
B204A:	l i	 
Roliss	l l 75	   Wetness
	, 	Low bearing strength
	İ	İ
Grygla	8	Wetness
Chilgren	5	Wetness
		Low bearing strength
Common		   T b
Garnes	5 I	Low bearing strength
Roliss, depressional	l l 5	   Wetness
norther, depressional	İ	Low bearing strength
	<u> </u>	
Hamre	2	Wetness
	l	Low bearing strength
	l	
B205A:		
Berner	80	Wetness
		Low bearing strength
Northwood	l l 7	   Wetness
NOI CHWOOd	, ,	Low bearing strength
	i I	low bearing belongen
Grygla	,   5	Wetness
	ĺ	ĺ
Cathro	3	Wetness
		Low bearing strength
Hamre	3	Wetness
	l I	Low bearing strength
Seelyeville	l   2	   Wetness
2001/011110	 I	Low bearing strength
	<u> </u>	
B206A:	İ	İ
Hamre	80	Wetness
	l	Low bearing strength
		<u> </u>
Chilgren	8	Wetness
	 	Low bearing strength
Northwood	l   5	   Wetness
in the same of the	i I	Low bearing strength
	İ	
Cathro	'   3	Wetness
	İ	Low bearing strength
	l	1
Grygla	2	Wetness
	l	
	2	Wetness
Roliss	4	Low bearing strength

Table 14.--Forest Haul Road Considerations--Continued

Map symbol	Pct. of	Forest haul road
and	map unit	considerations
component name		
D2073 -		
B207A: Pelan	l   70	   Low bearing strength
retaii	, , , , , , , , , , , , , , , , , , ,	now bearing berengen
Chilgren	10	Wetness
		Low bearing strength
_		
Garnes	10	Low bearing strength
Eckvoll	l   5	   No major considerations
	İ	
Grygla	5	Wetness
70007		
B208A: Grygla	l   75	   Wetness
01/910	, ,,	
Chilgren	10	Wetness
		Low bearing strength
Edino 1		No major gangidamaticas
Eckvoll	5 	No major considerations
Grygla, depressional	5	   Wetness
	İ	
Northwood	5	Wetness
		Low bearing strength
B210A:		
Eckvoll	70	No major considerations
	İ	
Chilgren	12	Wetness
		Low bearing strength
Grygla	l l 8	   Wetness
Garnes	7	Low bearing strength
Pelan	] 3 I	Low bearing strength
B211A:	] 	
Berner, ponded	45	Wetness
	l	Low bearing strength
Gather and d	1 45	 
Cathro, ponded	45 I	Wetness   Low bearing strength
Chilgren	2	Wetness
	l	Low bearing strength
Consent a		Waters
Grygla	2 I	Wetness
Hamre	   2	   Wetness
	İ	Low bearing strength
	l	
Northwood	2	Wetness
	[ 	Low bearing strength
Seelyeville, ponded	l   2	   Wetness
• • • • • • • • • • • • • • • • • • • •	<u>-</u>	Low bearing strength
	ı	1

Table 15.--Forest Log Landing Considerations

(Only the map units that have soils suitable for forest production are listed. See text for a description of the considerations listed in this table)

Map symbol	Pct. of	Forest log landing
and	map unit	considerations
component name		
70007		
B200A: Garnes	l l 70	   Susceptible to rutting and wheel slippage
Gaines	70 	Susceptible to futting and wheel slippage
Chilgren	13	Wetness
	İ	Susceptible to rutting and wheel slippage
	ļ.	
Eckvoll	5	No major considerations
Garnes, very stony	l l 5	   Susceptible to rutting and wheel slippage
Garnes, very scony	l J	busceptible to futting and wheel slippage
Grygla	4	Wetness
	İ	İ
Pelan	3	Susceptible to rutting and wheel slippage
B201A: Chilgren	l l 75	   Wetness
CIIIIgieii	/3 	Susceptible to rutting and wheel slippage
	İ	
Garnes	9	Susceptible to rutting and wheel slippage
	ļ.	
Grygla	5	Wetness
Grygla, depressional	l l 5	   Wetness
Grygia, depressionar	l 3	Wethers
Hamre	,   5	Wetness
	İ	Susceptible to rutting and wheel slippage
	ļ.	
Pelan	1	Susceptible to rutting and wheel slippage
B202A:	l i	 
Cathro	I 80	   Wetness
	İ	Susceptible to rutting and wheel slippage
Hamre	8	Wetness
	l i	Susceptible to rutting and wheel slippage
Chilgren	l l 3	   Wetness
<b>3</b>	İ	Susceptible to rutting and wheel slippage
	İ	İ
Northwood	3	Wetness
		Susceptible to rutting and wheel slippage
Berner	l l 2	   Wetness
2021102	i -	Susceptible to rutting and wheel slippage
	İ	
Grygla	2	Wetness
Seelyeville	2	Wetness   Susceptible to rutting and wheel slippage
	! 	Susceptible to futting and wheel slippage
B203A:	i	
Northwood	75	Wetness
	<u> </u>	Susceptible to rutting and wheel slippage
Hamma	10	
Hamre	10 	Wetness   Susceptible to rutting and wheel slippage
	İ	
Grygla	7	Wetness

Table 15.--Forest Log Landing Considerations--Continued

Man gymbol	Pct. of	Forest les landins
Map symbol   and	map unit	Forest log landing considerations
component name		
B203A:		
Berner	5	Wetness
		Susceptible to rutting and wheel slippage
Chilgren	3	Wetness
i		Susceptible to rutting and wheel slippage
İ		
B204A:		
Roliss	75	Wetness
		Susceptible to rutting and wheel slippage
Grygla	8	Wetness
i		
Chilgren	5	Wetness
ļ.		Susceptible to rutting and wheel slippage
Garage and	-	
Garnes	5	Susceptible to rutting and wheel slippage
Roliss, depressional	5	Wetness
		Susceptible to rutting and wheel slippage
j		
Hamre	2	Wetness
!		Susceptible to rutting and wheel slippage
B205A:		
Berner	80	Wetness
1		Susceptible to rutting and wheel slippage
i		
Northwood	7	Wetness
!		Susceptible to rutting and wheel slippage
 	5	Wetness
Giygia	3	Hechess
Cathro	3	Wetness
I		Susceptible to rutting and wheel slippage
Hamre	3	Wetness   Susceptible to rutting and wheel slippage
i		Susceptible to futting and wheel slippage
Seelyeville	2	Wetness
j		Susceptible to rutting and wheel slippage
ļ.		
B206A:	80	Waters
Hamre	80	Wetness   Susceptible to rutting and wheel slippage
i		babooperbie to raceing and wheel birppage
Chilgren	8	Wetness
I		Susceptible to rutting and wheel slippage
Name I have a d	-	****
Northwood	5	Wetness Susceptible to rutting and wheel slippage
i		
Cathro	3	Wetness
İ		Susceptible to rutting and wheel slippage
Grygla	2	Wetness
  Roliss	2	Wetness
	-	Susceptible to rutting and wheel slippage
i		

Table 15.--Forest Log Landing Considerations--Continued

Map symbol	Pct. of	Forest log landing
and	map unit	considerations
component name	ĺ	
	I	
B207A:	İ	
Pelan	70	Susceptible to rutting and wheel slippage
	i	· · · · · · · · · · · · · · · · · · ·
Chilgren	10	Wetness
05-0	-v	Susceptible to rutting and wheel slippage
	! !	busceptible to lucting and wheel slippage
Garnes	l   10	   Guagantible to mutting and wheel glinnage
Garnes	1 10	Susceptible to rutting and wheel slippage
m-111		 
Eckvoll	5	No major considerations
	_	
Grygla	5	Wetness
	!	
B208A:	!	
Grygla	75	Wetness
Chilgren	10	Wetness
		Susceptible to rutting and wheel slippage
Eckvoll	5	No major considerations
Grygla, depressional	5	Wetness
	ĺ	
Northwood	5	Wetness
	İ	Susceptible to rutting and wheel slippage
	i	· · · · · · · · · · · · · · · · · · ·
B210A:	i	
Eckvoll	l 70	No major considerations
20	 	
Chilgren	l 12	
011191011	<del></del>	Susceptible to rutting and wheel slippage
	! !	Subsciptible to lucting and wheel bilppage
Grygla	l 8	
01/910		Necress
Garnes	i I 7	Susceptible to rutting and wheel slippage
dariiob	, ,	babooperbie to racerng and wheer birppage
Pelan	l   3	   Suggestible to rutting and wheel glinnage
retail	1 3	Susceptible to rutting and wheel slippage
D0113.	! !	 
B211A:	45	
Berner, ponded	45	Wetness
		Susceptible to rutting and wheel slippage
	l 	
Cathro, ponded	45	Wetness
	!	Susceptible to rutting and wheel slippage
Chilgren	2	Wetness
	!	Susceptible to rutting and wheel slippage
Grygla	2	Wetness
Hamre	2	Wetness
		Susceptible to rutting and wheel slippage
Northwood	2	Wetness
		Susceptible to rutting and wheel slippage
	I	]
Seelyeville, ponded	2	Wetness
	İ	Susceptible to rutting and wheel slippage
	i	; <u> </u>

Table 16.--Forest Land Site Preparation and Planting Considerations

(Only the map units that have soils suitable for forest production are listed. See text for a description of the considerations listed in this table)

Map symbol and component name	Pct. of map unit	Forest land site preparation and planting
component name		considerations
ļ.		
B200A:	<b>5</b> 0	
Garnes	70	No major considerations
Chilgren	13	Wetness
Eckvoll	5	No major considerations
Garnes, very stony	5	Surface stones Cobbly surface
Grygla	4	Wetness
Pelan	3	   No major considerations
B201A:		
Chilgren	75	Wetness
Garnes	9	No major considerations
Grygla	5	Wetness
Grygla, depressional	5	Wetness
Hamre	5	Wetness
Pelan	1	No major considerations
B202A:		
Cathro	80	Wetness
Hamre	8	Wetness
Chilgren	3	Wetness
Northwood	3	Wetness
   Berner	2	Wetness
Grygla	2	Wetness
Seelyeville	2	Wetness
B203A:		
Northwood	75	Wetness
Hamre	10	Wetness
Grygla	7	Wetness
Berner	5	Wetness
Chilgren	3	Wetness
B204A:		
Roliss	75	Wetness
Grygla	8	Wetness
Chilgren	5	Wetness

Table 16.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol		Forest land site preparation and planting
and	map unit	considerations
component name		
B204A:		 
Garnes	5	No major considerations
	İ	
Roliss, depressional	5	Wetness
Hamre		Waters
наште	2 I	Wetness
B205A:		
Berner	80	Wetness
Northwood	7	Wetness
Grygla	l l 5	   Wetness
01/314		
Cathro	3	Wetness
Hamre	3	Wetness
Seelyeville	l   2	   Wetness
2001/011110	_	
B206A:	İ	
Hamre	80	Wetness
Oh i I arrea		Waters
Chilgren	8 	Wetness
Northwood	5	
	İ	
Cathro	3	Wetness
General c		Waters
Grygla	2 I	Wetness
Roliss	2	
	İ	İ
B207A:		
Pelan	70	No major considerations
Chilgren	   10	   Wetness
G	==	
Garnes	10	No major considerations
Eckvoll	5	No major considerations
Grygla	l I 5	   Wetness
B208A:	ĺ	
Grygla	75	Wetness
Chilgren	   10	   Wetness
CIIIIgreii	l 10	Wethess
Eckvoll	5	No major considerations
	ĺ	
Grygla, depressional	5	Wetness
Northwood	l I 5	   Wetness
MOT CHMOOD	ı э 	Wetness
B210A:		
Eckvoll	70	No major considerations
Chilgren	12	Wetness
Grygla	l l 8	   Wetness
		İ

Table 16.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol	Pct. of	Forest land site preparation and planting
and	map unit	considerations
component name		
B210A:		
Garnes	7	No major considerations
Pelan	3	No major considerations
B211A:		
Berner, ponded	45	Wetness
Cathro, ponded	45	Wetness
Chilgren	2	Wetness
Grygla	2	Wetness
Hamre	2	Wetness
Northwood	2	Wetness
Seelyeville, ponded	2	Wetness

Table 17.--Forest Productivity

(Only the map units that have soils suitable for forest production are listed. See text for an explanation of terms used in this table)

	 	Potential prod	uctivi	ty	 	
Map symbol and component name	Pct. of map unit	Common trees	:	   Volume  of wood   fiber	     Trees to manage   	
		Ī	l	cu ft/ac	Ī	
B200A:	 	 	 	 	 	
Garnes	70	Balsam fir	65	129	Bur oak, eastern	
	İ	Bur oak	60	43	white pine, green	
		Paper birch	:	72	ash, red pine,	
		Quaking aspen	:	:	white spruce	
	 	Red pine   White spruce	:	100   114	 	
Chilgren	   13	  Balsam fir	   60	   114	  Black ash, black	
	İ	Black ash	50	29	spruce, white	
		Paper birch	60	72	spruce	
		Quaking aspen	:	72	[	
	 	White spruce	55	100		
Eckvoll	l   5	  Balsam fir	   60	   114	  Bur oak, eastern	
	ĺ	Bur oak	55	43	white pine, red	
		Paper birch	60	72	pine, white spruce	
	ļ	Quaking aspen	:	71		
	l	Red pine	:	115		
	 	White spruce	60 	114 	 	
Garnes, very stony	5	Balsam fir	65	129	Bur oak, eastern	
		Bur oak	60	43	white pine, green	
		Paper birch	:	72	ash, red pine,	
		Quaking aspen	:	86	white spruce	
	 	Red pine   White spruce	:	100   114	 	
	į	į	į	į	į	
Grygla	4	Balsam fir	:	114	Black ash, black	
	l I	Paper birch   Quaking aspen	:	72   72	spruce, white   spruce	
	! 	White spruce	:	114	spruce	
Delen		  Post calls				
Pelan	3 	Bur oak   Quaking aspen	:	29   57	Bur oak, red pine	
		Red pine	!	100		
B201A:	 	 	 	 	 	
Chilgren	75	Balsam fir		114	Black ash, black	
		Black ash	:	29	spruce, white	
		Paper birch		:	spruce	
	 	Quaking aspen  White spruce	:	72   100	 	
	l	İ	į	ļ		
Garnes	•	Balsam fir	:	:	Bur oak, eastern	
	•	Bur oak   Paper birch		43   72	white pine, green   ash, red pine,	
	•	Quaking aspen	•	86	white spruce	
		Red pine	•	100		
		White spruce	:	114	İ	
Gryala	   5	  Balsam fir	   60	   114	  Rlack ach black	
Grygla	•	Paper birch	•	:	Black ash, black   spruce, white	
	l					
	•	Quaking aspen		72	spruce	

Table 17.--Forest Productivity--Continued

	 	Potential produ	ıctivi	ty	 
Map symbol and	Pct. of		I		İ
component name	map unit	Common trees	l lei+o	   Volume	Trees to manage
component name	Map dire			:	i irees co manage
	 	 	Index	of wood	l I
	<u> </u>	<u> </u>	L	fiber	
				cu ft/ac	
				!	
B201A:	_				
Grygla, depressional	:	Black ash		!	Black ash, black
	:	Black spruce		!	spruce
		Quaking aspen	40	29	
Hamre	5				
Pelan	1	Bur oak	50	29	Bur oak, red pine
		Quaking aspen	55	57	
		Red pine	60	100	
B202A:				l	
Cathro	80				
	ĺ	İ	ĺ	ĺ	
Hamre	8	i		i	i
	İ		İ	i	İ
Chilgren	3	Balsam fir	60	114	Black ash, black
- <b>3</b> ·	!	Black ash		:	spruce, white
	•	Paper birch		:	spruce
	•	Quaking aspen		:	l parace
	•	White spruce		!	
	l I	White spide	l 22	1 100	
Northwood	l   3	l 	l I	l I	 
NOT CHWOOD	] 	 	 	 	 
Berner	l l 2	! !	 	l I	 
Berner	4 	 		 	 
G	l 	   Dalaam fin	l   co	114	   Dlash ask blash
Grygla	•	Balsam fir		:	Black ash, black
	:	Paper birch		:	spruce, white
	:	Quaking aspen		:	spruce
		White spruce	60	114	
				ļ	
Seelyeville	2			ļ	
				!	
B203A:				!	
Northwood	75			!	
				ļ	
Hamre	10			l	
				ļ	
Grygla	•	Balsam fir		114	Black ash, black
		Paper birch	60	72	spruce, white
		Quaking aspen	65	72	spruce
		White spruce	60	114	
Berner	5				
Chilgren	3	Balsam fir	60	114	Black ash, black
		Black ash	50	29	spruce, white
		Paper birch	60	72	spruce
		Quaking aspen	65	72	
	l	White spruce	55	100	
			l		
B204A:			l		
Roliss	75	i		i	
	İ		İ	İ	
Grygla	8	Balsam fir	60	114	Black ash, black
- <del>-</del>		Paper birch		:	spruce, white
	•	Quaking aspen		:	spruce
	•	White spruce		:	
	ı I		, 30 I		1 
	ı	I	ı	I	ı

Table 17.--Forest Productivity--Continued

	 	Potential produ	ıctivi	ty	
Map symbol and	   Pct. of	 		 I	 
component name	map unit		l Isite	   Volume	Trees to manage
component name	l map ante			of wood	l II cop co manage
	l I	] 	I	:	! !
	<u> </u>	<u> </u>		fiber	<u> </u>
	 		 	cu ft/ac 	 
B204A:	İ			į	į
Chilgren	•	Balsam fir		114	Black ash, black
		Black ash	50	29	spruce, white
		Paper birch	60	72	spruce
		Quaking aspen	65	72	
		White spruce	55	100	
Garnes	l l 5	  Balsam fir	l l 65	   129	  Bur oak, eastern
	:	Bur oak		:	white pine, green
	•	Paper birch		!	ash, red pine,
	:	Quaking aspen		!	white spruce
		Red pine		:	white spiece
	l i			!	 
	 	White spruce	60 	114 	 
Roliss, depressional	5			i	
Hamre	l   2	 	 	 	 
	ĺ		İ	į	į
B205A:					l
Berner	80				
Northwood	   7	 	 	 	 
Grygla	l l 5	  Balsam fir	   60	   114	  Black ash, black
	•	Paper birch		:	spruce, white
	•	Quaking aspen		!	spruce
	İ	White spruce		114	
Cathro	   3	 	 	 	 
	į		İ	į	į
Hamre	3 	 	 	 	 
Seelyeville	2   2	 	 	 	 
B206A:			İ	İ	İ
Hamre	80				
Chilgren	l l 8	  Balsam fir	l   60	   114	  Black ash, black
	İ	Black ash	50	29	spruce, white
	İ	Paper birch	60	72	spruce
	i	Quaking aspen		72	
	i İ	White spruce			İ
Northwood	   5	 	 	 	 
Cathro	   3	 	   	 	 
Cacino				 	 
Grygla	•	Balsam fir		•	Black ash, black
	•	Paper birch		:	spruce, white
	•	Quaking aspen   White spruce		:	spruce 
	İ		İ	į	İ
Roliss	2 	 	 	 	 
B207A:				<u> </u>	İ
Pelan	70	Bur oak	50	29	Bur oak, red pine
		Quaking aspen	55	57	
		Red pine	60	100	
	I	I	ı	I	I

Table 17.--Forest Productivity--Continued

		Potential produ	uctivi	-y	 
Map symbol and	Pct. of				
component name	map unit		:	Volume	Trees to manage
l			index	of wood	
				fiber	
		 	 	cu ft/ac 	 
B207A:					
Chilgren		Balsam fir	:		Black ash, black
		Black ash			spruce, white
		Paper birch	60	72	spruce
l		Quaking aspen	:		
		White spruce	55 	100 	 
Garnes		Balsam fir	:		Bur oak, eastern
		Bur oak	60	43	white pine, gre
		Paper birch	65	72	ash, red pine,
		Quaking aspen	70	86	white spruce
I		Red pine	60	100	
		White spruce	60 	114 	 
Eckvoll		  Balsam fir		•	  Bur oak, eastern
I		Bur oak	55	43	white pine, red
I		Paper birch	60	72	pine, white spr
I		Quaking aspen	65	71	
I		Red pine	65	115	
ļ		White spruce	60 	114	
Grygla	5	  Balsam fir	   60	   114	  Black ash, black
I		Paper birch	60	72	spruce, white
		Quaking aspen	65	72	spruce
ļ		White spruce	60 	114	
B208A:			 	 	! 
Grygla	75	Balsam fir	60	114	Black ash, black
I		Paper birch	60	72	spruce, white
I		Quaking aspen	65	72	spruce
		White spruce	60 	114 	 
Chilgren	10	  Balsam fir	60	114	  Black ash, black
I		Black ash	50	29	spruce, white
I		Paper birch	60	72	spruce
I		Quaking aspen	65	72	
ļ		White spruce	55 	100	
Eckvoll	5	  Balsam fir	   60	   114	  Bur oak, eastern
I		Bur oak	55	43	white pine, red
I		Paper birch	60	72	pine, white spr
I		Quaking aspen	65	71	
I		Red pine	65	115	
		White spruce	60 	114 	 
Grygla, depressional	5	  Black ash	   40	   14	  Black ash, black
I		Black spruce	35	43	spruce
		Quaking aspen	40 	29 	 
	5	 	 	 	   
Northwood		! 	<u> </u>		
  B210A:			60	114	Bur oak, eastern
į		Balsam fir			:
  B210A:		Bur oak	55		
  B210A:		Bur oak Paper birch	55   60	43 72	
  B210A:		Bur oak  Paper birch  Quaking aspen	55   60   65	43   72   71	
  B210A:		Bur oak Paper birch	55   60   65   65	43   72   71	white pine, red   pine, white spr 

Table 17.--Forest Productivity--Continued

	<u> </u>	Potential produ	uctivi	ty	   
Map symbol and	Pct. of			 	 
component name	map unit	Common trees	Site	Volume	Trees to manage
		l	index	of wood	
				fiber	L
		l		cu ft/ac	
		ļ			
B210A:					
Chilgren		Balsam fir	•		Black ash, black
		Black ash	•	29	spruce, white
		Paper birch	:	72   72	spruce
		Quaking aspen   White spruce	•	! -	l i
	l I	white spruce	33 	l 100	 
Grygla	l   8	  Balsam fir	l   60	   114	  Black ash, black
	İ	Paper birch	60	:	spruce, white
	İ	Quaking aspen	65	72	spruce
		White spruce	•	114	 
	ĺ	ĺ	ĺ	ĺ	
Garnes	7	Balsam fir	65	129	Bur oak, eastern
		Bur oak	60	43	white pine, green
		Paper birch	65	72	ash, red pine,
		Quaking aspen	70	86	white spruce
		Red pine	60		
		White spruce	60	114	
Pelan	l l 3	  Bur oak	l l 50	   29	  Bur oak, red pine
relaii		Quaking aspen	!	57	Dar Oak, red prine
		Red pine		!	
B211A:					
Berner, ponded	45				
Cathro, ponded	l   45	l 	 	 	l 
			i	İ	
Chilgren	2	Balsam fir	60	114	Black ash, black
	İ	Black ash	50	29	spruce, white
		Paper birch	60	72	spruce
		Quaking aspen	65	72	
		White spruce	55	100	
Grygla	l l 2	  Balsam fir	l l 60	   114	  Black ash, black
017910		Paper birch	!	!	spruce, white
		Quaking aspen	•		spruce
	j	White spruce	•	114	
		<u> </u>	ļ		
Hamre	2	 	 	 	 
Northwood	l   2	 	 	 	 
	j	İ	İ	İ	İ
Seelyeville, ponded	2				
		<u> </u>	L	l	L

## Table 18a.--Recreation

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

component name	Pct. of map	   Camp areas   		Picnic areas   		   Playgrounds   	
	unit						
	İ	Rating class and	Value	Rating class and	Value	Rating class and	Value
		limiting features	<u> </u>	limiting features	<u> </u>	limiting features	
-100-			ļ		ļ		ļ
B109A:		 			!		
Bowstring	45 	very limited:   Depth to	1 00	Very limited:	1 00	Very limited:	1 00
		Depth to   saturated zone	1.00	Ponding Depth to	1.00	Depth to saturated zone	1.00
		Flooding	1	saturated zone	1	Content of	11.00
	¦	Ponding	11.00	!	1	organic matter	1
	¦	Content of	11.00		1	Flooding	11.00
	i I	organic matter	1	Flooding	0.60	Ponding	1.00
	i		i	İ	i		i
Fluvaquents	40	Very limited:	İ	Very limited:	į	Very limited:	İ
		Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	
		Flooding	1.00	saturated zone		Flooding	1.00
		Ponding	1.00	Flooding	0.60	Ponding	1.00
			!		ļ		ļ
Hapludalfs	5			Very limited:	•	Very limited:	
	ļ	Flooding	1.00	! -	1.00	Slope	1.00
	ļ	Slope	1.00		!	Depth to	0.01
	 	Depth to saturated zone	0.01	 		saturated zone	l I
	 	Sacuraced Zone	1	i I	ŀ	! 	i
Seelyeville	5	  Very limited:	i	Very limited:	i	  Very limited:	i
	İ	Depth to	1.00	Ponding	1.00	Depth to	1.00
	İ	saturated zone	İ	Depth to	1.00	saturated zone	İ
	ĺ	Flooding	1.00	saturated zone	İ	Flooding	1.00
		Ponding	1.00	Flooding	0.60	Ponding	1.00
Water	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	   
B200A:	 	 	ŀ	 	l	! [	i
Garnes	70	Somewhat limited:	i	Not limited	i	Somewhat limited:	i
	i	Depth to	0.01	İ	i	Depth to	0.01
	İ	saturated zone	İ	İ	į	saturated zone	İ
			ļ		ļ		ļ
Chilgren	13	!	!	Very limited:	:	Very limited:	
	!	Depth to	1.00	! -	1.00	! -	1.00
	 	saturated zone	1 00	saturated zone	1 00	saturated zone	1 00
	l I	Ponding 	1.00	Ponding	1.00	Ponding 	1.00
Eckvoll	l I 5	  Somewhat limited:	i	  Not limited	i	  Somewhat limited:	i
	i	Depth to	0.01	i	i	Depth to	0.01
	į	saturated zone	i	j	i	saturated zone	i
	-						1
Garnes, very stony	5	Somewhat limited:	:	Somewhat limited:	!	Somewhat limited:	
		·	0.04	· -	0.04	! -	0.12
		<u> </u>	0.01		-	Too stony	0.04
	l I	saturated zone	1	 	!	Content of large	10.01
	I I	 		I I		stones Depth to	0.01
	I I	I I	1	 	1	saturated zone	10.01
	i	   			i		i
		1		•			

Table 18a.--Recreation--Continued

component name	  Pct.   of  map  unit	 		Picnic areas   		Playgrounds 	
	uniic   			   Rating class and   limiting features		Rating class and limiting features	Value
B2003.							
B200A: Grygla	l I 4	  Very limited:		  Very limited:		  Very limited:	1
13	i -	Depth to	1.00		1.00	!	1.00
j	İ	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Ponding	1.00	!	1.00		1.00
		Too sandy	0.12	Too sandy	0.12	Too sandy	0.12
Pelan	   3	  Somewhat limited:		  Not limited	l I	  Somewhat limited:	!
101411	İ	Depth to	0.01	!	i	Depth to	0.01
	İ	saturated zone	i	İ	i	saturated zone	i
	ĺ	İ	İ	İ	Ì	İ	İ
B201A:			İ		ļ		ļ
Chilgren	75 	! -	:	Very limited:	11.00	Very limited:	11.00
	l I	Depth to saturated zone	1.00	Depth to saturated zone	1	Depth to saturated zone	1
	l I	Ponding	1	!	11.00	Ponding	11.00
	İ	İ	i		i		i
Garnes	9	Somewhat limited:	İ	Not limited	Ì	Somewhat limited:	Ì
		Depth to	0.01	!		Depth to	0.01
		saturated zone				saturated zone	!
Grygla	   5	  Very limited:		  Very limited:	l i	  Very limited:	-
Giygia		Depth to	11.00	! -	11.00	!	11.00
	İ	saturated zone	i	saturated zone	i	saturated zone	i
j	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Too sandy	0.12	Too sandy	0.12	Too sandy	0.12
C							!
Grygla, depressional	l a	Very limited:   Depth to	:	Very limited:   Ponding	1.00	Very limited:   Depth to	1
	İ	saturated zone		Depth to	11.00	: -	
	j	Ponding	1.00	saturated zone	j	Ponding	1.00
		Too sandy	0.12	Too sandy	0.12	Too sandy	0.12
**	-						!
Hamre	l a	Very limited:   Depth to	1 1.00	Very limited:   Ponding	1	Very limited:   Depth to	1
	İ	saturated zone		Depth to	1.00		
	j	Ponding	1.00	saturated zone	j	Content of	1.00
		Content of	1.00	!	1.00	!	1
		organic matter		organic matter		Ponding	1.00
Pelan	l l 1	  Somewhat limited:		  Not limited		  Somewhat limited:	1
	i -	Depth to	0.01	1	i	Depth to	0.01
	İ	saturated zone	İ	İ	İ	saturated zone	İ
		!	!	!	ļ	[	!
B202A:		 		 		 	1
Cathro	80 	very limited:   Depth to	1	Very limited:   Ponding	  1.00	Very limited:   Depth to	1
	l I	saturated zone	1	Depth to	1.00	<u> </u>	1
	j	Ponding	1.00		į	Content of	1.00
İ		Content of	1.00	1	1.00		
		organic matter		organic matter		Ponding	1.00
Uamro	   •	 		  Vory limited:	 	 	1
Hamre	ı • İ	Very limited:   Depth to	1	Very limited:   Ponding	  1.00	Very limited:   Depth to	1.00
	İ	saturated zone		Depth to	1.00	<u> </u>	
	ĺ	Ponding	1.00	! =	İ	Content of	1.00
		Content of	1.00	Content of	1.00		
		organic matter		organic matter		Ponding	1.00

Table 18a.--Recreation--Continued

Map symbol and component name	Pct. of map unit	 		Picnic areas		Playgrounds   	
	   	Rating class and limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
	ļ		İ	!	ļ	<u> </u>	ļ
B202A:			!				!
Chilgren	3	Very limited:	:	Very limited:	11.00	Very limited:	1 00
	l I	Depth to saturated zone	1.00	Depth to saturated zone	11.00	Depth to saturated zone	1.00
	 	Ponding	1	Saturated zone   Ponding	1	Saturated Zone   Ponding	1 1.00
	i						1
Northwood	3	Very limited:	İ	Very limited:	İ	Very limited:	i
	ĺ	Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	
		Ponding	1.00	saturated zone		Ponding	1.00
_			!		!		!
Berner	2	Very limited:	:	Very limited:		Very limited:	
	!	Depth to saturated zone	1.00	Ponding Depth to	1.00	Depth to saturated zone	1.00
	:	Ponding	1	saturated zone	1	Content of	1
		Content of	11.00	Content of	1.00	organic matter	1
	i	organic matter		organic matter		Ponding	1.00
	i		İ	İ	İ	İ	i
Grygla	2	Very limited:	İ	Very limited:	ĺ	Very limited:	İ
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Too sandy	0.12	Too sandy	0.12	Too sandy	0.12
Seelyeville		  Very limited:		  Very limited:		  Very limited:	!
seeryeville	<u>4</u> 	Depth to	1	! -	1	Depth to	1 1.00
		saturated zone	1	Depth to	11.00	saturated zone	1
	i	Ponding	1.00	saturated zone		Ponding	1.00
	į	İ	į	j	j	j	į
B203A:							
Northwood	75		:	Very limited:	:	Very limited:	1
		Depth to	1.00	!	1.00	! -	1.00
		saturated zone		Depth to	1.00	saturated zone	
		Ponding	1.00	saturated zone	l I	Ponding	1.00
Hamre	l l 10	  Very limited:		  Very limited:		  Very limited:	1
		Depth to	1.00	Ponding	1.00		1.00
	i	saturated zone	i	Depth to	1.00	saturated zone	i
	į	Ponding	1.00	saturated zone	İ	Content of	1.00
		Content of	1.00	Content of	1.00	organic matter	
		organic matter	!	organic matter		Ponding	1.00
	_		!		ļ		ļ
Grygla	7	Very limited:	:	Very limited:	1	Very limited:	
	l i	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Ponding	1		1.00	!	1 1.00
		Too sandy	0.12	Too sandy	0.12	Too sandy	0.12
	i						
Berner	5	  Very limited:	i	  Very limited:	į	  Very limited:	i
	ĺ	Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	
	ļ	Ponding	1.00	saturated zone	ļ	Content of	1.00
	ļ	Content of	1.00	Content of	1.00	organic matter	
		organic matter	1	organic matter		Ponding	1.00
Chilgron-	ا د ا	   Norm limited:	1	  Vorus limited:		  Vorm limited:	
Chilgren	1 3 1	Very limited:   Depth to	1	Very limited:   Depth to	1.00	Very limited:   Depth to	1
	 	saturated zone	1 - 00	saturated zone	± • 0 0	saturated zone	1
	i	Ponding	1	Ponding	1	Ponding	1
						:	: '

Table 18a.--Recreation--Continued

Map symbol and component name	Pct. of map	!		Picnic areas		Playgrounds		
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value	
			İ		İ			
B204A:		 		 	ļ		!	
Roliss	/3 	Depth to	1	Very limited:   Depth to	1	Very limited:   Depth to	1 1.00	
	i	saturated zone		saturated zone		saturated zone		
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00	
Grygla	   8	  Very limited:		  Very limited:	 	  Very limited:		
GI/gIu	İ	Depth to	1.00	! -	1.00	: -	1.00	
	i	saturated zone	i	saturated zone	i	saturated zone	i	
	ĺ	Ponding	1.00	Ponding	1.00	Ponding	1.00	
		Too sandy	0.12	Too sandy	0.12	Too sandy	0.12	
Chilgren	l I 5	  Very limited:	 	  Very limited:	 	  Very limited:		
<b>3</b>	İ	Depth to	1.00	: -	1.00	: -	1.00	
	ĺ	saturated zone	İ	saturated zone	ĺ	saturated zone	Ì	
		Ponding	1.00	Ponding	1.00	Ponding	1.00	
Garnes	l I5	  Somewhat limited:		  Not limited		  Somewhat limited:		
	İ	Depth to	0.01		i	Depth to	0.01	
	İ	saturated zone	İ	į	İ	saturated zone	İ	
Roliss, depressional	   5	  Very limited:		  Very limited:	 	  Very limited:		
MOTIBBY depressional		Depth to	1.00	! -	1.00	! -	1.00	
	i	saturated zone	i	Depth to	1.00	saturated zone	i	
		Ponding	1.00	saturated zone		Ponding	1.00	
Hamre	   2	  Very limited:	 	  Very limited:	l I	  Very limited:		
	i	Depth to	1.00	! -	1.00	: -	1.00	
		saturated zone		Depth to	1.00	saturated zone		
	ļ	Ponding	1.00	!		Content of	1.00	
		Content of   organic matter	1.00	Content of   organic matter	1.00	organic matter Ponding	11.00	
	 	Organic macter		Organic macter	 			
B205A:	į	İ	į	İ	į	İ	į	
Berner	80	Very limited:	:	Very limited:	11 00	Very limited:	11 00	
	l I	Depth to saturated zone	1.00	Ponding Depth to	1.00  1.00	Depth to saturated zone	1.00	
	i	Ponding	1.00	! -		Content of	1.00	
	j	Content of	1.00	Content of	1.00	organic matter	İ	
		organic matter		organic matter		Ponding	1.00	
Northwood	   7	  Very limited:	 	  Very limited:	l I	  Very limited:		
	i	Depth to	1.00		1.00		1.00	
	ĺ	saturated zone	İ	Depth to	1.00	saturated zone	Ì	
		Ponding	1.00	saturated zone		Ponding	1.00	
Grygla	   5	  Very limited:		  Very limited:	 	  Very limited:		
	į	Depth to	1.00	:	1.00	:	1.00	
		saturated zone		saturated zone		saturated zone	1	
		Ponding	1.00		1.00	:	1.00	
	 	Too sandy	0.12 	Too sandy	0.12	Too sandy	0.12	
Cathro	3	  Very limited:	İ	  Very limited:		  Very limited:	i	
		Depth to	1.00	Ponding	1.00	•	1.00	
	ļ	saturated zone		Depth to	1.00	saturated zone		
		Ponding	11.00		11 00	Content of	1.00	
	 	Content of organic matter	1.00 	Content of organic matter	1.00	organic matter Ponding	1.00	
	1	I SEGMINE MACCOL	1	I SEGULLO MACCOL	1	1	1	

Table 18a.--Recreation--Continued

Map symbol and component name	Pct. of map	   Camp areas 		Picnic areas		Playgrounds   	
	unit	l		<u> </u>		<u> </u>	
			Value	Rating class and			Value
	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
DOOES.							!
B205A: Hamre	2	  Very limited:		  Very limited:	!	  Very limited:	!
nami e	3	Depth to	1	! -	1	! -	1
	i	saturated zone		Depth to	1.00	saturated zone	
	i	Ponding	1.00	saturated zone	i	Content of	1.00
	İ	Content of	1.00	Content of	1.00	organic matter	İ
		organic matter		organic matter		Ponding	1.00
			İ		İ		ļ
Seelyeville	2	Very limited:	:	Very limited:	:	Very limited:	
	 	Depth to saturated zone	1.00	Ponding Depth to	1.00	! -	1.00
	l I	Saturated zone   Ponding	1	! -	1	Saturated Zone   Ponding	1 1.00
	! 				i		
B206A:	İ	İ	į	İ	į	İ	İ
Hamre	80	Very limited:		Very limited:		Very limited:	
		Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone	!	Depth to	1.00	saturated zone	
		Ponding	1.00	!		Content of	1.00
		Content of   organic matter	1.00	!	1.00	organic matter	1 00
	l I	Organic matter		organic matter		Ponding	1.00
Chilgren	l   8	  Very limited:	i	  Very limited:	i	  Very limited:	i
	i	Depth to	1.00	! -	1.00	! -	1.00
	į	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
			İ		İ		ļ
Northwood	5	Very limited:	:	Very limited:	:	Very limited:	
		Depth to	1.00	!	11.00	! -	1.00
	 	saturated zone Ponding	1 1.00	Depth to saturated zone	1.00	saturated zone Ponding	11.00
	 	Foliating	1	Sacuraced Zone	1	Foliating	1
Cathro	3	  Very limited:	i	  Very limited:	i	  Very limited:	i
	ĺ	Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	
		Ponding	1.00			Content of	1.00
		Content of	1.00	!	1.00	organic matter	
		organic matter		organic matter		Ponding	1.00
Grygla	   2	  Very limited:		  Very limited:		  Very limited:	1
01/910	i -	Depth to	1.00	! -	1.00	! -	1.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Too sandy	0.12	Too sandy	0.12	Too sandy	0.12
- 11			!		!		
Roliss	2	Very limited:		Very limited:		Very limited:	
	 	: -	:	Depth to saturated zone	11.00	Depth to saturated zone	1.00
	l I	!	1.00	!	1 1.00	!	1 1.00
	i I	Foliating	1	Foliating	1	Foliating	1
B207A:	į	İ	į	İ	į	į	i
Pelan	70	Somewhat limited:		Not limited		Somewhat limited:	
		! -	0.01	!	1	Depth to	0.01
		saturated zone	!		!	saturated zone	
Chilaman		 		 		 	
Chilgren	I I TO			Very limited:   Depth to	1.00	Very limited:   Depth to	11.00
	I I	: -	11.00	saturated zone	1 - 00	saturated zone	1
	i	!	1	!	1	!	1.00

Table 18a.--Recreation--Continued

	component name	Pct. of map	 		Picnic areas   		Playgrounds   	
B207A:   Garnes		unit   	Rating class and	•				Value
Garnes				i		i		i
Saturated zone		   10 	•		  Not limited 	 	!	    0.01
Depth to saturated zone		į	! -			į		
Grygla	Eckvoll	   5 	Depth to		  Not limited 	   	Depth to	    0.01
Depth to saturated zone   Saturated zone   Saturated zone   Ponding   1.00   sandy   0.12   Too sandy   0.13   Too sandy   0.13   Too sandy   0.13   Too sa		 	saturated zone	 	 	 	saturated zone	
Saturated zone	Grygla	5	! -	:	! -	:	! -	į
Too sandy   0.12   Too sandy   0.12   Too sandy		   	saturated zone	į	saturated zone	į	saturated zone	1.00    1.00
Orygla			· -	!	!	!	!	0.12
Depth to saturated zone   Saturated zone   Saturated zone   Ponding   1.00   ne   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Depth to   Saturated zone   Depth to   Saturated zone   Depth to   Saturated zone   Ponding   Saturated zone   Depth to   Saturated zone   Depth to   Saturated zone   Depth to   Saturated zone   Depth to   Saturated zone   Ponding   Saturated zone   Depth to   Saturated zone   Ponding   Saturated zone   Depth to   Saturated zone   Ponding   Saturated zone   Pond	B208A:	 	 	 	 	 	 	
Saturated zone   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Depth to   1.00   Depth to   1.00   Depth to   Saturated zone   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Saturated zone   Ponding   1.00   Saturated zone   Ponding   1.00   Saturated zone   Ponding   1.00   Ponding   1.00   Ponding   1.00   Saturated zone   Ponding   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   Ponding   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   Ponding   Ponding   Ponding   Ponding   Ponding   Ponding   1.00   Ponding   1.00   Ponding	Grygla	75	! -	:	! -	:	! -	į
Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Depth to   1.00   Depth to   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Depth to   0.01   Depth to   Depth to   Depth to   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Saturated zone   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Saturated zone   Ponding   Too sandy   0.12   Too sandy   0.12   Too sandy   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Saturated zone   Ponding   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Saturated zone   Ponding   Depth to   Depth		 	:	1.00	! -	1.00	! -	1.00
Too sandy			!	1	!	1	!	11.00
Depth to   1.00   Depth to   saturated zone   saturated zone   Ponding   1.00		į	Too sandy	:	· -	:		0.12
Saturated zone   Saturated zone   Saturated zone   Ponding   1.00   Ponding   1.00   Ponding   1.00   Ponding	Chilgren	   10	  Very limited:	 	  Very limited:	 	  Very limited:	
Eckvoll			! -	1.00	! -	1.00	!	1.00
Grygla, depressional 5   Very limited:   Very limited:   Very limited:   Very limited:   Depth to   Saturated zone   Depth to   Saturated zone   Depth to   Saturated zone   Depth to   Saturated zone   Ponding    Saturated zone   Ponding		 	!	1.00	!	1.00	!	1.00
Saturated zone   Saturated zone   Saturated zone	Eckvoll	   5	  Somewhat limited:	 	  Not limited	 	  Somewhat limited:	
Depth to   1.00   Ponding   1.00   Depth to   saturated zone   Ponding   1.00   saturated zone   Ponding   1.00   saturated zone   Ponding   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too saturated zone   Ponding   0.100   Saturated zone   Ponding   0.100   Saturated zone   Ponding   0.100   Saturated zone   Ponding   0.100   Depth to		 		0.01	 		! -	0.01
Saturated zone   Depth to   1.00   Saturated zone   Ponding   1.00   Saturated zone   Ponding   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too sandy   0.12   Too saturated zone   Ponding   0.100   Depth to	Grygla, depressional	5	! -	:	! -	:	! -	
Ponding 1.00 saturated zone   Ponding   Too sandy   0.12   Too saturated zone   Ponding   0.100   Depth to			! -	1.00	· -	:	! -	1.00
Too sandy				1	! -	1	!	1
Depth to 1.00 Ponding 1.00 Depth to saturated zone Ponding 1.00 saturated zone Ponding 1.00 saturated zone Ponding  B209A: Seelyeville		į	Too sandy	:	!	0.12	!	0.12
Saturated zone   Depth to   1.00   Saturated zone   Ponding   1.00   Saturated zone   Ponding   1.00   Saturated zone   Ponding   Seelyeville	Northwood	5	! -	:	! -	!	! -	
Ponding 1.00 saturated zone Ponding  B209A:  Seelyeville		 	! -	1.00	!	:	! -	1.00
Seelyeville				1.00	! -		•	1.00
Seelyeville	B209A:	 	 	l I	 	l I	 	l I
saturated zone   Depth to   1.00   saturated zone   Ponding   1.00   saturated zone   Ponding     Cathro		90	  Very limited:	i	  Very limited:	i	  Very limited:	i
Ponding   1.00   saturated zone   Ponding     Cathro   3   Very limited:   Very limited:   Very limited:     Depth to   1.00   Ponding   1.00   Depth to     saturated zone   Depth to   1.00   saturated zone		ļ	! -	1.00	· -	:	! -	1.00
Depth to   1.00   Ponding   1.00   Depth to   saturated zone   Depth to   1.00   saturated zone		 	!	  1.00		1.00 	•	  1.00
saturated zone Depth to 1.00 saturated zone	Cathro	   3	  Very limited:	 	  Very limited:	 	  Very limited:	
			Depth to	1.00				1.00
			!		! -	1.00	!	
Ponding   1.00   saturated zone   Content of   Content of   1.00   Content of   1.00   organic matter		 		•	•	1.00	•	1.00 
organic matter   organic matter   Ponding		i	•		•			1.00

Table 18a.--Recreation--Continued

Map symbol and component name	Pct. of map	 		Picnic areas		Playgrounds 	
	unit   	'	Value	   Rating class and   limiting features	Value	Rating class and limiting features	Value
	ļ	<u> </u>	ļ	<u> </u>	ļ	<u> </u>	ļ
B209A: Dora	   3	  Very limited:		  Very limited:		  Very limited:	
DOI d		Depth to	11.00	Ponding	1	Depth to	11.00
	i	saturated zone		Depth to	11.00	saturated zone	
	i	Ponding	1.00		i	Content of	1.00
	i	Content of	1.00	Content of	1.00	organic matter	i
	ĺ	organic matter	İ	organic matter	İ	Ponding	1.00
		Restricted	0.96	Restricted	0.96	Restricted	0.96
		permeability		permeability		permeability	
Markey	3	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	
		Ponding	1.00	!		Content of	1.00
	ļ	Content of	1.00	!	1.00	organic matter	ļ
	 	organic matter	 	organic matter	l I	Ponding 	1.00
Berner	1	  Very limited:	i	  Very limited:	i	  Very limited:	i
		Depth to	1.00	Ponding	1.00	Depth to	1.00
 		saturated zone		Depth to	1.00	saturated zone	
		Ponding	1.00	!		Content of	1.00
	!	Content of	1.00	Content of	1.00	organic matter	1
	 	organic matter	 	organic matter	 	Ponding 	1.00
B210A:	į	<u> </u>	į	<u> </u>	į		į
Eckvoll	70	!	,	Not limited	!	Somewhat limited:	
	 	Depth to saturated zone	0.01	 		Depth to saturated zone	0.01
Chilgren	1 12	! -		Very limited:	•	Very limited:	11 00
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Ponding	1	!	1.00	Ponding	1.00
Conseril a		 		 		 	
Grygla	°	Very limited:   Depth to	1 1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	1
		saturated zone	1	saturated zone	1	saturated zone	1
	 	Ponding	1.00	!	1.00	Ponding	1.00
	į	Too sandy	0.12	!	0.12	Too sandy	0.12
Garnes	   7	  Somewhat limited:	 	  Not limited	 	  Somewhat limited:	
	i '	Depth to	0.01		i	Depth to	0.01
	į	saturated zone	į	į	į	saturated zone	į
Pelan	   3	  Somewhat limited:		  Not limited		Somewhat limited:	
		Depth to	0.01		i	Depth to	0.01
	į	saturated zone			ļ	saturated zone	
B211A:	 	 	 	 	 	 	
Berner, ponded	45	  Very limited:	i	  Very limited:	i	  Very limited:	i
		Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	
		Ponding	1.00	saturated zone	1	Content of	1.00
 	:	!	:	!	:	:	1
	į	Content of organic matter	1.00	Content of organic matter	1.00	organic matter	1.00

Table 18a.--Recreation--Continued

= =	Pct. of	Camp areas 		Picnic areas		Playgrounds 	
	map  unit	 		<u> </u>		 	
	 	Rating class and   limiting features	Value 	Rating class and limiting features	,	Rating class and   limiting features	Value
D0113							ļ
B211A: Cathro, ponded	   45	  Very limited:	l i	  Very limited:	l i	  Very limited:	-
cacino, policed	<del>1</del> 3	Depth to	1		11.00	Depth to	1
	i	saturated zone		Depth to	1.00	saturated zone	
	į	Ponding	1.00	saturated zone	İ	Content of	1.00
		Content of	1.00	Content of	1.00	organic matter	1
	 	organic matter	 	organic matter	 	Ponding 	1.00
Chilgren	2	  Very limited:	İ	  Very limited:	İ	  Very limited:	i
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	1
	 	Ponding	1.00 	Ponding	1.00 	Ponding	1.00
Grygla	2	  Very limited:	İ	  Very limited:	İ	  Very limited:	i
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
	 	Too sandy	0.12 	Too sandy 	0.12 	Too sandy	0.12
Hamre	2	Very limited:	i	  Very limited:	i	  Very limited:	i
	į	Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	1
		Ponding	1.00	saturated zone		Content of	1.00
	!	Content of	1.00	!	1.00	organic matter	!
	 	organic matter	l I	organic matter	l I	Ponding 	1.00
Northwood	2	Very limited:	i	Very limited:	j	Very limited:	i
		Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	
	 	Ponding 	1.00 	saturated zone	 	Ponding 	1.00
Seelyeville, ponded	2	Very limited:	İ	Very limited:	İ	Very limited:	İ
		Depth to	1.00	Ponding	1.00	Depth to	1.00
	!	saturated zone		Depth to	1.00	saturated zone	!
	 	Ponding	1.00 	saturated zone	 	Ponding	1.00
I1A:	į	İ	i	İ	j	j	i
Augsburg	75	Very limited:		Very limited:		Very limited:	
	!	Depth to	1.00	<u>.                                      </u>	1.00	! -	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding Restricted	1.00  0.96		1.00  0.96	Ponding Restricted	1.00
	 	restricted   permeability		Restricted   permeability		restricted   permeability	
Borup		  Vorus limited		  Very limited:		  Very limited:	
BOT up	I 10	! -	1.00		1.00	:	1 1.00
	 	saturated zone	1	saturated zone	1	saturated zone	1
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
Foxlake	   5	  Very limited:	 	  Very limited:	 	  Very limited:	 
	i	:	1.00		1.00	:	1.00
		saturated zone		saturated zone		saturated zone	1
			1.00		1.00		1.00
	ļ	!	0.96	!	0.96	Restricted	0.96
	I	permeability	I	permeability	I	permeability	1

Table 18a.--Recreation--Continued

component name	Pct. of map	 		Picnic areas		Playgrounds	
	unit 	'	Value	Rating class and	Value	Rating class and	Value
	<u> </u>	limiting features	varac	limiting features		limiting features	
I1A:   Augsburg,	   	  -  -	   	  -  -	   	  -  -	 
depressional	3	Very limited:	j	Very limited:	İ	Very limited:	į
		Depth to	1.00	Ponding	1.00	Depth to	1.00
1		saturated zone			1.00	!	
ļ ,		Ponding	1.00	saturated zone		Ponding	1.00
	   	Restricted   permeability 	0.96   	Restricted   permeability 	0.96   	Restricted   permeability 	0.96   
Wheatville	l   3	  Very limited:	i	  Somewhat limited:	İ	  Very limited:	i
i	İ	Depth to	1.00	Restricted	0.96		1.00
j	j	saturated zone	j	permeability	İ	saturated zone	İ
!		Restricted	0.96	Depth to	0.90	Restricted	0.96
1	 	permeability	 	saturated zone	 	permeability	
Glyndon	2	Very limited:		Very limited:	l	Very limited:	
		! -	1.00	! -	1.00	-	1.00
	 	saturated zone	 	saturated zone	 	saturated zone	
Espelie	1	Very limited:	:	Very limited:	:	Very limited:	
ļ.		Depth to	1.00	! -	1.00	-	1.00
!	 	saturated zone	11 00	saturated zone		saturated zone	11 00
	l I	Ponding Restricted	1.00  0.96	!	1.00  0.96		1.00  0.96
	 	permeability		permeability		permeability	0.30
į	ĺ		į		į		į
Hattie	1	Very limited:	:	Very limited:	:	Very limited:	
			1.00		1.00		11.00
	l I	Restricted permeability	0.96	Restricted permeability	0.96	Restricted permeability	0.96
,	l I	Depth to	0.20	Depth to	  0.10	Depth to	0.20
		saturated zone		saturated zone		saturated zone	
I3A:	l I	 	 	 	 	 	
Berner	80 I	Not rated 	į i	Not rated	į į	  Not rated 	į
Northwood	   7	  Not rated 		  Not rated		  Not rated 	
Kratka	I				l		1
	5	Very limited:	i	  Very limited:	 	  Very limited:	
i	5 	! - T	1.00	! - T	    1.00	-	    1.00
 	5   	! - T	!	! - T	!	-	    1.00 
	5     	Depth to saturated zone	!	Depth to saturated zone	1.00 	Depth to	  1.00    1.00
Hamre	     	Depth to saturated zone	1.00    1.00	Depth to saturated zone	1.00    1.00	Depth to saturated zone	į
Hamre	         3	Depth to saturated zone Ponding	1.00    1.00   	Depth to saturated zone Ponding	1.00    1.00     	Depth to saturated zone Ponding	į
j	         3	Depth to saturated zone Ponding Not rated Very limited:	1.00    1.00   	Depth to saturated zone Ponding Not rated Very limited:	1.00    1.00     	Depth to saturated zone Ponding Not rated Very limited:	į
j	         3	Depth to saturated zone Ponding Not rated Very limited:	1.00    1.00     	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone	1.00    1.00              1.00	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone	  1.00     
j	         3	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone	1.00    1.00     	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone	1.00    1.00       	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone	  1.00     
j	       3   3	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding	1.00    1.00          1.00    1.00	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone	1.00    1.00            1.00    1.00	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone	  1.00          1.00
Strathcona	3   3	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated	1.00    1.00          1.00    1.00   	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding	1.00    1.00            1.00    1.00	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding	  1.00          1.00
Strathcona Seelyeville I4A: Berner	3   3	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated	1.00    1.00          1.00    1.00   	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated	1.00    1.00            1.00    1.00	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated	  1.00          1.00
Strathcona Seelyeville I4A: Berner Rosewood,	                 	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated	1.00    1.00          1.00    1.00     	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated	1.00    1.00          1.00    1.00     	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated	  1.00          1.00
Strathcona Seelyeville I4A: Berner	                 	Depth to   saturated zone   Ponding     Not rated     Very limited:   Depth to   saturated zone   Ponding     Not rated       Not rated         Not rated         Very limited:	1.00    1.00          1.00    1.00     	Depth to   saturated zone   Ponding       Not rated     Very limited:   Depth to   saturated zone   Ponding       Not rated         Not rated	1.00    1.00          1.00             	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated	  1.00          1.00
Strathcona Seelyeville I4A: Berner Rosewood,	                 	Depth to   saturated zone   Ponding	1.00    1.00          1.00                                   	Depth to   saturated zone   Ponding	1.00    1.00          1.00             	Depth to saturated zone Ponding Not rated Very limited: Depth to saturated zone Ponding Not rated Not rated Very limited:	  1.00          1.00    1.00     

Table 18a.--Recreation--Continued

	  Pct.			   Picnic areas		   Playgrounds	
-	map  unit	į		   		   	
	<u> </u> 	Rating class and   limiting features	Value 	Rating class and limiting features		Rating class and limiting features	Value
14A:						 	
Strathcona,	ľ	! 	1	! 	! !	 	1
depressional	30	  Very limited:	i	  Very limited:	i	  Very limited:	i
	ĺ	Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone	!	Depth to	1.00	saturated zone	!
		Ponding	1.00	saturated zone		Ponding	1.00
Rosewood	4	  Very limited:	i	  Very limited:	 	  Very limited:	i
	j	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Deerwood	2	  Not rated		  Not rated	 	  Not rated	
Mavie	   2	  Very limited:		  Very limited:	l I	  Very limited:	1
114 / 10	i -	Depth to	1.00	! -	1		11.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Strathcona	l l 2	  Very limited:		  Very limited:	 	  Very limited:	-
	i	Depth to	1.00		1.00		1.00
	İ	saturated zone	İ	saturated zone	İ	saturated zone	İ
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
I5A:	 	 	 	 	 	 	l I
Borup	75	  Very limited:	i	  Very limited:	i	  Very limited:	i
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Glyndon	   9	  Very limited:	i	  Very limited:	i	  Very limited:	i
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
Rosewood	   8	  Very limited:		  Very limited:	 	  Very limited:	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone	!	saturated zone	!	saturated zone	!
	 	Ponding	1.00	Ponding	1.00 	Ponding 	1.00
Augsburg	5	Very limited:	i	  Very limited:	<u> </u>	  Very limited:	i
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone	!	saturated zone	!	saturated zone	!
	ļ	Ponding	1.00		1.00		1.00
	 	Restricted permeability	0.96 	Restricted permeability	0.96 	Restricted permeability	0.96 
	İ	İ	į		į		i
Augsburg,		 		 			
depressional	3 	Very limited:	:	Very limited:		Very limited:	  1 00
	 	Depth to saturated zone	1.00 	Ponding Depth to	1.00  1.00	<u> </u>	1.00 
	i	Ponding	1			Ponding	1
	i	Restricted	0.96	•	0.96		0.96
	ļ	permeability	ļ	permeability	ļ	permeability	
17A:	 	 	 	 	 	 	 
Bowstring	45	Not rated	i	  Not rated	İ	  Not rated	i
							1

Table 18a.--Recreation--Continued

component name	Pct. of map	 		Picnic areas		Playgrounds	
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
T73.							
I7A: Fluvaquents	   45 	Depth to	1   1.00	!	1.00	!	1.00
	 	!	  1.00  1.00	saturated zone	1.00    0.60	saturated zone Flooding Ponding	1.00
Hapludolls	   5 	! -	  1.00  0.63	! -	    0.63 	  Very limited:   Slope 	    1.00
Water	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	
I8A:	i	 	İ	İ		İ	i
Cathro	80 	Not rated 	 	Not rated 	 	Not rated 	
Hamre	8 	Not rated 	 	Not rated 	 	Not rated 	
Northwood	3 	Not rated 	 	Not rated 	 	Not rated 	
Roliss	3   	saturated zone	1.00	saturated zone	1.00	saturated zone	  1.00 
		Ponding	1.00	Ponding	1.00 	Ponding	1.00
Berner	   2 	  Not rated 		  Not rated 	į	  Not rated 	į
Kratka	   2 	  Very limited:   Depth to   saturated zone	  1.00 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	  1.00 
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Seelyeville	2	  Not rated 		  Not rated 	   	  Not rated 	
19A:		 		 	 	! 	
Clearwater	80   	! -	  1.00 	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  1.00 
	į	Too clayey	1.00	Too clayey	1.00	Too clayey	1.00
		Ponding Restricted	1.00  0.96	Ponding   Restricted	1.00  0.96	Ponding   Restricted	1.00
	   	restricted   permeability		permeability		restricted   permeability	
Clearwater, very		 		 	 	! 	
cobbly	5	Very limited:	ļ.	Very limited:	:	Very limited:	ļ
	 	Depth to   saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
	!	Too clayey	11.00	Too clayey	1.00	Too clayey	1.00
		Ponding   Restricted	1.00	Ponding   Restricted	1.00  0.96	Ponding   Restricted	1.00
	 	permeability 		permeability 	 	permeability	
Reis	5	Very limited:		Very limited:	:	Very limited:	
	l I	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too clayey	1.00	Too clayey	  1.00	Too clayey	1 1.00
	į	Restricted	0.96	Restricted	0.96	Restricted	0.96
	I	permeability	I	permeability	1	permeability	1

Table 18a.--Recreation--Continued

Map symbol and component name	  Pct.   of	   Camp areas 		   Picnic areas 		   Playgrounds 	
	map  unit	 		 		 	
	unite   	'	Value	Rating class and   limiting features		Rating class and   limiting features	Value
I9A:		 		 		 	
Clearwater,	 	! 	i	! 	i	! 	1
depressional	3	  Very limited:	i	  Very limited:	i	  Very limited:	i
	ĺ	Depth to	1.00	Ponding	1.00	Depth to	1.00
		saturated zone		Depth to	1.00	saturated zone	1
		!	1.00	!		Ponding	1.00
	l I	Restricted permeability	0.96 	Restricted permeability	0.96 	Restricted permeability	0.96 
	İ		i		i		i
Espelie	3	Very limited:		Very limited:		Very limited:	
		! -	1.00	! -	1.00	! -	1.00
		saturated zone		saturated zone		saturated zone	
	l I	!	1.00  0.96	!	1.00  0.96	Ponding   Restricted	1.00  0.96
	i	permeability		permeability		permeability	
	İ	į	į	j	į	j	İ
Foxlake	2	Very limited:	:	Very limited:	:	Very limited:	!
		! -	1.00	! -	1.00	! -	1.00
	 	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00	saturated zone Ponding	1.00
	 	!	0.96	!	0.96	Restricted	0.96
	i	permeability		permeability		permeability	
			ļ		ļ		İ
Hattie	1	Very limited:	:	Very limited:	:	Very limited:	
	l I		1.00  0.96		1.00  0.96	Too clayey Restricted	1.00  0.96
	 	permeability	0.30 	permeability	0.30 	permeability	10.30
	İ		0.20	! -	0.10	Depth to	0.20
	İ	saturated zone	İ	saturated zone	İ	saturated zone	į
Huot	   1	  Somewhat limited:	 	  Somewhat limited:	 	  Somewhat limited:	
11400	<del>-</del>	Restricted	1  0.96	Restricted	0.96	Restricted	0.96
	i	permeability	i	permeability	i	permeability	i
		Depth to	0.01			Gravel content	0.06
		saturated zone				Depth to	0.01
	 	 	l I	 	l I	saturated zone	
I11A:	İ	! 	i	! 	i	! 	i
Deerwood	85	Not rated	į	Not rated	į	Not rated	İ
			ļ		ļ		ļ
Rosewood	6 	Very limited:   Depth to		Very limited:	  1.00	Very limited:	11 00
	 	saturated zone	1.00 	Depth to   saturated zone	1	Depth to saturated zone	1.00 
	i		1.00		1.00	•	1.00
Markey	3 	Not rated 	 	Not rated 	 	Not rated 	
Strathcona	2	  Very limited:	i	  Very limited:	i	  Very limited:	i
		! -	1.00	! -	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	l I	Ponding 	1.00 	Ponding 	1.00 	Ponding 	1.00
Syrene	2	  Very limited:	i	  Very limited:	i	  Very limited:	
	ĺ		1.00	•	1.00	•	1.00
	ļ	saturated zone		saturated zone		saturated zone	1
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Venlo	2	  Very limited:		  Very limited:		  Very limited:	
-	i	! -	1.00	! -	1.00	:	1.00
		saturated zone		! -	1.00	!	Į.
		Ponding	1.00	saturated zone		Ponding	1.00
	I	I	I	I	I	I	I

Table 18a.--Recreation--Continued

component name	Pct. of map	 		   Picnic areas 		   Playgrounds 	
	unit   	'		   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I12A: Eckvoll	     70   	Too sandy	      0.31  0.01		      0.31 	  Somewhat limited:   Too sandy   Depth to   saturated zone	    0.31  0.01
Kratka	   8     	saturated zone	1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Smiley	   7   	Depth to saturated zone	:	saturated zone	  -  1.00    1.00	saturated zone	  1.00    1.00
Linveldt	   5   		    0.01   	  Not limited     	       	  Somewhat limited:   Depth to   saturated zone	    0.01 
Reiner	5   	Somewhat limited:   Depth to   saturated zone	  0.01 	Not limited     	     	Somewhat limited:   Depth to   saturated zone	0.01
Foldahl	   2   		  0.31  0.01	· -	    0.31 	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01
Pelan	   2   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	  0.01 
Poppleton	   1     	<u>-</u>	    1.00  0.01 	·	    1.00   	  Very limited:   Too sandy   Depth to   saturated zone	  1.00  0.01 
I13A: Espelie	   75         	Depth to saturated zone Ponding	    1.00    1.00  0.96	saturated zone Ponding	    1.00    1.00  0.96	  Very limited:   Depth to   saturated zone   Ponding   Restricted   permeability	    1.00    1.00  0.96
Foxlake	   8         	  Very limited:   Depth to   saturated zone	    1.00    1.00  0.96	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00  0.96	Very limited:   Depth to   saturated zone   Ponding   Restricted   permeability	    1.00    1.00  0.96
Hilaire	   7       	  Somewhat limited:   Restricted   permeability   Depth to   saturated zone	  0.96    0.01 	  Somewhat limited:   Restricted   permeability   	    0.96       	  Somewhat limited:   Restricted   permeability   Depth to   saturated zone	  0.96    0.01 

Table 18a.--Recreation--Continued

component name	  Pct.   of  map  unit	 		   Picnic areas     		   Playgrounds   	
	   			Rating class and limiting features	•	Rating class and   limiting features	Value
I13A:		 					 
Clearwater,			ļ		ļ		ļ
depressional	5	Very limited:	:	Very limited:	•	Very limited:	
		! -	1.00	!	11.00	!	1.00
	 	saturated zone Ponding	1	Depth to saturated zone	1.00	saturated zone Ponding	1
	l I	!	0.96	!	1  0.96		10.96
		permeability		permeability		permeability	
Thiefriver	   5	  Very limited:		  Very limited:		  Very limited:	
	i		1.00	! -	1.00	! -	1.00
	İ	saturated zone	į	saturated zone	į	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		!	0.96	1	0.96	Restricted	0.96
	 	permeability	 	permeability	 	permeability	
I15A: Flaming	   70	  Somewhat limited:		  Somewhat limited:		  Somewhat limited:	
raming	, , o	!	0.31	!	0.31		0.31
	i	! -	0.01	· -		Depth to	0.01
	 	saturated zone	į	İ	į	saturated zone	į
Garborg	1 10	  Very limited:	ŀ	  Somewhat limited:	ŀ	  Somewhat limited:	ŀ
3	i	Depth to	0.99	!	0.78	Depth to	0.99
	į	saturated zone	į	saturated zone	į	saturated zone	İ
	 	Too sandy	0.31	Too sandy	0.31	Too sandy	0.31
Hamar	5	Very limited:	i	  Very limited:	i	  Very limited:	i
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		!	1.00	!	1.00	Ponding	1.00
	 	Too sandy	0.31 	Too sandy	0.31 	Too sandy	0.31
Ulen	5	Somewhat limited:	Ì	Somewhat limited:	Ì	Somewhat limited:	Ì
		Depth to	0.44	Depth to	0.22	Depth to	0.44
	 	saturated zone	 	saturated zone	 	saturated zone	
Poppleton	3	Very limited:	į	Very limited:	į	Very limited:	İ
		Too sandy	1.00	Too sandy	1.00	Too sandy	1.00
		! -	0.01	<u> </u>	!	Depth to	0.01
	 	saturated zone	 	 	 	saturated zone	
Sandberg	3	!		Somewhat limited:	!	Very limited:	ļ
			0.30		0.30	!	1.00
	 	Gravel content	0.01	Gravel content	0.01	Slope Too sandy	0.50
m-14-3-1			į	la marakan di datan	į		
Foldahl	4	Somewhat limited:   Too sandy	0.31	Somewhat limited:   Too sandy	0.31	Somewhat limited:   Too sandy	0.31
	l I		0.01		10.31	Depth to	0.31
		saturated zone				saturated zone	
Radium	   2	  Somewhat limited:		  Somewhat limited:		  Somewhat limited:	
Rad I dili	-	•	0.36		0.36		0.36
I16F:	 	 	 	 	 	 	
Fluvaquents	55	Very limited:		Very limited:		Very limited:	Ī
		! -	1.00	!	1.00	! -	1.00
	ļ	saturated zone		! =	1.00	!	
			11.00		10.50	Flooding	11.00
	I I	Ponding	1	riooding	U.60	Ponding	1.00
	 	Ponding 	1.00 	Flooding 	0.60 	Ponding 	1. 

Table 18a.--Recreation--Continued

component name	Pct. of map	 		Picnic areas		Playgrounds   	
	unit		1370 1.10	Rating class and	13701.10	Dating glagg and	1370 1110
	 	Rating class and   limiting features		limiting features			value
				1			
I16F: Hapludolls	   25   	Flooding	  1.00  0.63	  Somewhat limited:   Slope 	    0.63 	  Very limited:   Slope 	    1.00
Hapludalfs	   7       	Slope	  1.00  1.00  0.01	į	    1.00     	Very limited: Slope Depth to saturated zone	  1.00  0.01 
Fairdale	   5     	Flooding   Slope	  1.00  0.37  0.01	į	  0.37     	Flooding	  1.00  0.60  0.01
Water	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	   
Bowstring	2	  Not rated	į	Not rated		  Not rated	į
Rauville	   1       	saturated zone	  1.00    1.00  1.00	Depth to saturated zone	1.00	saturated zone	  1.00    1.00  1.00
I17A: Foldahl	75   	•	    0.01	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01
Kratka	   10     	Depth to saturated zone	1.00	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Roliss	   5   	saturated zone	1.00	saturated zone	1.00	saturated zone	    1.00    1.00
Flaming	   4   	Too sandy	  0.31  0.01	· -	    0.31   	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01
Grimstad	   2   	  Very limited:   Depth to   saturated zone	    0.99 	  Somewhat limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	    0.99 
Linveldt	   2   	  Somewhat limited:   Depth to   saturated zone	  0.01 	  Not limited   	       	  Somewhat limited:   Depth to   saturated zone	  0.01 
Eckvoll	   1     	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01 	· -	    0.31     	   Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01 

Table 18a.--Recreation--Continued

component name	Pct.  Camp areas   of    map			Picnic areas		Playgrounds   	
	unit   	'		   Rating class and   limiting features	•	Rating class and limiting features	
I17A: Strathcona	     1   	Depth to saturated zone	      1.00    1.00	saturated zone	1.00	saturated zone	    1.00    1.00
I18A: Foldahl	     75   	Too sandy	      0.31  0.01	· -	!	  Somewhat limited:   Too sandy   Depth to   saturated zone	    0.31  0.01
Kratka	   10     	Depth to saturated zone	1.00	saturated zone	1.00 	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Roliss	   5     	Depth to saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Flaming	   4   		    0.31  0.01	· -	!	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01
Grimstad	   2 	  Very limited:   Depth to   saturated zone	    0.99 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.99 
Linveldt	   2   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	0.01
Eckvoll	   1     		    0.31  0.01		    0.31   	  Somewhat limited:   Too sandy   Depth to   saturated zone	0.31
Strathcona	   1     	Depth to saturated zone		saturated zone	 	saturated zone	  1.00    1.00
I19A: Foxhome	   65   	!	    0.01	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	0.01
Kittson	   10   	!	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	0.01
Strandquist	   10       	: -	    1.00    1.00	saturated zone	 	saturated zone	  1.00    1.00

Table 18a.--Recreation--Continued

component name	Pct. of map	 		Picnic areas		Playgrounds   	
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I19A: Foldahl	   5   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Grimstad	   5 	  Very limited:   Depth to   saturated zone	    0.99 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.99 
Roliss	   3 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Mavie	   2   	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I20A:							
Foxlake	   75 	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	1.00
	     		1.00  0.96 	Ponding   Restricted   permeability	1.00  0.96 	Ponding   Restricted   permeability	1.00  0.96 
Clearwater	   5   	  Very limited:   Depth to   saturated zone   Too clayey	  1.00    1.00	  Very limited:   Depth to   saturated zone   Too clayey	  1.00    1.00	  Very limited:   Depth to   saturated zone   Too clayey	  1.00    1.00
	     	Restricted permeability	1.00  0.96 	Ponding Restricted permeability	1.00  0.96 	Ponding Restricted permeability	1.00  0.96 
Foxlake, very cobbly	5     	Very limited:   Depth to   saturated zone   Ponding	1.00    1.00	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	 	Restricted   permeability	0.96	Restricted   permeability	0.96	Restricted   permeability	0.96
Augsburg	   3   	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00
	     	Ponding   Restricted   permeability	1.00  0.96 	Ponding   Restricted   permeability	1.00  0.96 	Ponding   Restricted   permeability	1.00  0.96 
Clearwater, depressional	     3	    Very limited:   Depth to	      1.00	    Very limited:   Ponding	      1.00	    Very limited:   Depth to	      1.00
	   	saturated zone	1.00	Depth to	1.00	saturated zone Ponding	1.00
	   	Restricted permeability	0.96	Restricted permeability	0.96	Restricted permeability	0.96

Table 18a.--Recreation--Continued

= =	Pct.	Camp areas 		Picnic areas		Playgrounds	
_	map  unit	 		i I		 	
		'	Value	Rating class and	Value	Rating class and	Value
	<u></u>	limiting features	<u> </u>	limiting features		limiting features	i
I20A:			ļ		ļ		!
Espelie	3 	Very limited:   Depth to	11.00	Very limited:	  1.00	Very limited:	11.00
	l I	saturated zone	1	Depth to saturated zone	1	Depth to saturated zone	1
	! 	Ponding	1.00	!	1	Ponding	1.00
	i	Restricted	0.96	Restricted	0.96	Restricted	0.96
		permeability		permeability		permeability	
			ļ		ļ		İ
Hilaire	2	Somewhat limited:	•	Somewhat limited:	•	Somewhat limited:	10.00
	 	Restricted permeability	0.96	Restricted permeability	0.96	Restricted permeability	0.96
	 	Depth to	0.01	Permeability	i	Depth to	0.01
	i	saturated zone	İ	İ	i	saturated zone	i
	İ	İ	į	İ	į	İ	į
Reis	2	Very limited:		Very limited:	•	Very limited:	ļ
		Depth to	1.00	! · · · · · · · · · · · · · · · · · · ·	1.00	! -	1.00
	l I	saturated zone Too clayey	1	saturated zone Too clayey	  1.00	saturated zone Too clayey	11.00
	 	Restricted	0.96		10.96	Restricted	10.96
	İ	permeability		permeability		permeability	
	į	j	į	j	į	· -	į
Wheatville	2	Very limited:	•	Somewhat limited:	•	Very limited:	1
		Depth to	1.00	1	0.96		1.00
		saturated zone		permeability		saturated zone	
	l I	Restricted permeability	0.96	Depth to saturated zone	0.90 	Restricted permeability	0.96
	! 		i		i		i
I22A:	į	İ	i	İ	i		i
Glyndon	75	Very limited:		Very limited:		Very limited:	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone	!	saturated zone		saturated zone	!
Borup	   10	  Very limited:	!	  Very limited:		  Very limited:	-
Бог ир	1	Depth to	1		1	Depth to	1
	i	saturated zone	i	saturated zone	i	saturated zone	i
	ĺ	Ponding	1.00	Ponding	1.00	Ponding	1.00
			!				!
Augsburg	5	Very limited:	:	Very limited:	:	Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Ponding	1		1	Ponding	1
	İ	Restricted	0.96		0.96	Restricted	0.96
	İ	permeability	į	permeability	į	permeability	į
	ļ		!				
Ulen	5	Somewhat limited:	:	Somewhat limited:	•	Somewhat limited:	
	 	Depth to saturated zone	0.44	Depth to saturated zone	0.22	Depth to saturated zone	0.44
	! 	Bacuraced Zone	ŀ	Sacuraced Zone	i	Bacuraced Zone	i
	3	  Very limited:	i	Somewhat limited:	i	  Very limited:	i
Wheatville	I	Depth to	1.00		0.96	•	1.00
Wheatville	1	saturated zone	1	permeability		saturated zone	!
Wheatville			1.				0.96
Wheatville	 	Restricted	0.96	! =	0.90	Restricted	10000
Wheatville	     		0.96	Depth to saturated zone	0.90   	Restricted   permeability 	
	         2	Restricted permeability	i I	saturated zone	j 	permeability	
Wheatville	           2	Restricted	i I	! =	j 	permeability      Somewhat limited:	
	         2 	Restricted permeability Somewhat limited:	 	saturated zone    Somewhat limited:   Too sandy	   	permeability      Somewhat limited:	 

Table 18a.--Recreation--Continued

component name	  Pct.   of  map  unit	 		   Picnic areas   		   Playgrounds   	
	   	'	:	Rating class and limiting features	•	Rating class and limiting features	Value
I24A: Grimstad	     70 	:	:	  Somewhat limited:   Depth to   saturated zone	:	  Somewhat limited:   Depth to   saturated zone	      0.99
Strathcona	   12     	Depth to saturated zone	1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Foldahl	   5   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	:	  Somewhat limited:   Depth to   saturated zone	    0.01 
Hamerly	   5   	  Very limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	    1.00 
Foxhome	   2   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	•	  Somewhat limited:   Depth to   saturated zone	0.01
Karlsruhe	   2   	  Somewhat limited:   Depth to   saturated zone	:	  Somewhat limited:   Depth to   saturated zone	•	  Somewhat limited:   Depth to   saturated zone	0.44
Mavie	   2   	saturated zone	1.00	saturated zone	1.00	saturated zone	  1.00    1.00
Ulen	   2   	  Somewhat limited:   Depth to   saturated zone	:	  Somewhat limited:   Depth to   saturated zone	0.22	  Somewhat limited:   Depth to   saturated zone	    0.44 
I25A: Hamar	     75     	Depth to saturated zone Ponding	1.00	Depth to saturated zone Ponding	1.00	saturated zone Ponding	    1.00    1.00  0.31
Garborg	   10     	  Very limited:   Depth to   saturated zone   Too sandy	    0.99    0.31	saturated zone	    0.78    0.31	saturated zone	    0.99    0.31
Rosewood	   7   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Venlo	   3   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	Depth to	    1.00  1.00	! -	  1.00    1.00
Flaming	   2     	  Somewhat limited:   Too sandy	į	  Somewhat limited:   Too sandy	    0.31     	  Somewhat limited:	    0.31  0.01 

Table 18a.--Recreation--Continued

component name	  Pct.   of  map  unit	 		   Picnic areas     		   Playgrounds     	
	 	'	•	Rating class and limiting features	•	Rating class and limiting features	
I25A: Hangaard	     2 	! -	:	    Very limited:   Depth to   saturated zone	      1.00	    Very limited:   Depth to   saturated zone	      1.00
Kratka	;       1	!	į		1.00 	Ponding	1.00
	     	Depth to saturated zone	:	Depth to saturated zone	:	Depth to saturated zone	1.00    1.00 
I26A:		<u> </u>		<u> </u>			
Hamerly	75     	! -	  1.00 	Somewhat limited:   Depth to   saturated zone 	  0.90   	Very limited:   Depth to   saturated zone 	  1.00 
Vallers	12     	Depth to saturated zone	:	saturated zone	!	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Foxhome	   3 	!	    0.01	  Not limited 	     	Somewhat limited:   Depth to   saturated zone	    0.01 
Grimstad	   3   	! -	    0.99 	  Somewhat limited:   Depth to   saturated zone	:	  Somewhat limited:   Depth to   saturated zone	    0.99 
Hamerly, very cobbly	   3   	:	:	  Somewhat limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone	    1.00 
Strathcona	   3   	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00
Roliss, depressional	   1     	Depth to saturated zone	1.00	Depth to	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I27A:	     80	    Not rated	   	    Not rated	   	    Not rated	   
Northwood	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	   
Roliss	   5     	saturated zone		  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00
Smiley	   5     	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding		  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Cathro	   3 	  Not rated 	   	  Not rated 	   	  Not rated 	   

Table 18a.--Recreation--Continued

component name	Pct. of map unit	 		Picnic areas		Playgrounds   	
	   	'	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
127A:	 	 	 	 	 	 	
Kratka	2   	  Very limited:   Depth to   saturated zone	  1.00	  Very limited:   Depth to   saturated zone	  1.00	  Very limited:   Depth to   saturated zone	1.00
		!	1.00	!	1.00	Ponding	1.00
I32A:	 	 	 	 	 	 	
Hilaire	75   	Somewhat limited:   Restricted   permeability	  0.96 	Somewhat limited:   Restricted   permeability	  0.96 	Somewhat limited:   Restricted   permeability	  0.96 
	 	Depth to   saturated zone	0.01		<u>.</u>	Depth to saturated zone	0.01
Espelie	   12	  Very limited:	 	  Very limited:	 	  Very limited:	
	 	Depth to   saturated zone   Ponding	1.00	saturated zone	1.00	saturated zone	1.00
	 	Ponding   Restricted	1.00  0.96	!	1.00  0.96	Ponding   Restricted	1.00  0.96
	 	permeability	 	permeability	 	permeability	
Huot	5 	Somewhat limited:	0.96	!	!	Somewhat limited:	0.96
	 	permeability   Depth to	0.01	permeability 		permeability Gravel content	0.06
		saturated zone		 		Depth to saturated zone	0.01
Flaming	   2	  Somewhat limited:	 	  Somewhat limited:	 	  Somewhat limited:	
	   	Too sandy Depth to saturated zone	0.31  0.01 	<u>-</u>	0.31   	Too sandy Depth to saturated zone	0.31  0.01 
Foxlake	   2	  Very limited:	 	  Very limited:	 	  Very limited:	
	İ	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Ponding	1.00		1.00	!	1.00
	 	Restricted permeability	0.96 	Restricted permeability	0.96 	Restricted permeability	0.96 
Wheatville	į	    Very limited:	į	    Somewhat limited:	į	    Very limited:	į
wileacville	2	Depth to	1.00	Restricted	  0.96	Depth to	1.00
	 	saturated zone Restricted	  0.96	permeability Depth to	  0.90	saturated zone Restricted	  0.96
		permeability		saturated zone		permeability	
Thiefriver	1	Very limited:		Very limited:		Very limited:	
	 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
	i	Ponding	1.00	Ponding	1.00	Ponding	1.00
	 	Restricted permeability	0.96 	Restricted permeability	0.96 	Restricted permeability	0.96
Wyandotte	   1	  Very limited:	 	  Very limited:	 	  Very limited:	
	ļ	Depth to	1.00	Depth to	1.00	Depth to	1.00
	 	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00	saturated zone Ponding	1.00
		Ponding   Restricted	0.96	Ponding   Restricted	0.96	Ponding   Restricted	0.96
	i	permeability	İ	permeability		permeability	i

Table 18a.--Recreation--Continued

	  Pct.   of  map	   Camp areas   		   Picnic areas   		   Playgrounds   	
	unit	! 		! 		 	
	 	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
I34A: Huot	     75   	  Somewhat limited:   Restricted   permeability	0.96	permeability	      0.96	permeability	      0.96
	     	Depth to   saturated zone   	0.01     	 	     	Gravel content   Depth to   saturated zone 	0.06  0.01 
Thiefriver	12           	Depth to saturated zone Ponding	  1.00    1.00  0.96	saturated zone Ponding	1.00	saturated zone	  1.00    1.00  0.96
Hilaire	   5     	Somewhat limited:   Restricted   permeability   Depth to   saturated zone	    0.96    0.01	permeability	    0.96   	Somewhat limited:   Restricted   permeability   Depth to   saturated zone	  0.96    0.01
Flaming	   3     		    0.31  0.01	  Somewhat limited:   Too sandy   	    0.31   	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01
Foxlake	   3       	saturated zone Ponding	:	:	  1.00    1.00  0.96	   Very limited:   Depth to   saturated zone   Ponding   Restricted   permeability	  1.00    1.00  0.96
Ulen	   2   	  Somewhat limited:   Depth to   saturated zone	    0.44   	  Somewhat limited:   Depth to   saturated zone	    0.22   	  Somewhat limited:   Depth to   saturated zone	    0.44   
I36A: Kittson	   70     	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited     	       	  Somewhat limited:   Depth to   saturated zone	    0.01 
Roliss	12     	Depth to saturated zone	!	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00
Hamerly	   5   	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.90 	  Very limited:   Depth to   saturated zone	    1.00 
Kratka	5     	saturated zone	  1.00    1.00	saturated zone		  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Grimstad	   3   	  Very limited:   Depth to   saturated zone	    0.99   	  Somewhat limited:   Depth to   saturated zone	    0.78   	  Somewhat limited:   Depth to   saturated zone	    0.99   

Table 18a.--Recreation--Continued

component name	Pct. of map unit	i !		Picnic areas   		Playgrounds     	
	   	:	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
I36A: Strandquist	   3   	  Very limited:   Depth to   saturated zone   Ponding	      1.00    1.00	saturated zone	      1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Foxhome	   2   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited     	       	  Somewhat limited:   Depth to   saturated zone	    0.01 
I38A: Kratka	   70     	Depth to saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Smiley	   7     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Foldahl	   5   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Kratka, very cobbly	   5     	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strathcona	   5     	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Kratka, depressional	   3   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strandquist	   3   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Linveldt	   2   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited     	       	  Somewhat limited:   Depth to   saturated zone	    0.01 
I39A: Linveldt	   65   	  Somewhat limited:   Depth to   saturated zone	      0.01	  Not limited   	       	  Somewhat limited:   Depth to   saturated zone	0.01
Kratka	   14       	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18a.--Recreation--Continued

component name	  Pct.   of	_		   Picnic areas 		   Playgrounds 	
	map  unit	!		 		 	
	   		•	Rating class and   limiting features		Rating class and   limiting features	Value
	ļ				ļ		!
I39A: Reiner	   10 	'	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Smiley	   5   	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Eckvoll	   3   	<u>-</u>	    0.31  0.01	· -	    0.31 	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01
Foldahl	   2 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Pelan	   1   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
I41A: Markey	     80	    Not rated	   	    Not rated	   	    Not rated	
Deerwood	   12	  Not rated	! !	  Not rated	 	  Not rated	!
Berner	2	  Not rated	 	  Not rated	 	  Not rated	
Hamar	   2     	saturated zone Ponding	  1.00    1.00  0.31	saturated zone Ponding	  1.00    1.00  0.31	saturated zone Ponding	  1.00    1.00  0.31
Seelyeville	   2	  Not rated	 	  Not rated	 	  Not rated	
Syrene	   2     	saturated zone	1.00	saturated zone	1.00 	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I42A:	! 	! 		! 	! 	! 	
Markey, ponded	85   85	Not rated	į	  Not rated 	į į	  Not rated 	į
Markey	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	
Deerwood	   4 	  Not rated 	!   !	  Not rated 	   	  Not rated 	
Seelyeville, ponded	   4	  Not rated	   	  Not rated	   	  Not rated	
Hamar	   1       	saturated zone Ponding	  1.00    1.00  0.31	saturated zone Ponding	    1.00    1.00  0.31	saturated zone Ponding	  1.00    1.00  0.31

Table 18a.--Recreation--Continued

component name	Pct. of map	 		Picnic areas		   Playgrounds   	
	unit   	'	Value	   Rating class and   limiting features	•	Rating class and limiting features	Value
I42A: Hangaard	     1   	saturated zone	      1.00    1.00	saturated zone	      1.00    1.00	    Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
I43A: Mavie	     70   	Depth to saturated zone	      1.00    1.00	saturated zone	      1.00    1.00	    Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Vallers	   10     	Depth to saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strandquist	   7   	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strathcona	   5   	saturated zone	    1.00    1.00	saturated zone	 	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strathcona, depressional	     3   	saturated zone	      1.00    1.00	Depth to	      1.00  1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Foxhome	   2 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Karlsruhe	   2 	  Somewhat limited:   Depth to   saturated zone	    0.44 	  Somewhat limited:   Depth to   saturated zone	    0.22 	  Somewhat limited:   Depth to   saturated zone	    0.44 
Grimstad	   1 	  Very limited:   Depth to   saturated zone	    0.99 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.99 
I44A: Newfolden	   75       	Restricted permeability	    0.94    0.01	  Somewhat limited:   Restricted   permeability   	      0.94   	  Somewhat limited:   Restricted   permeability   Depth to   saturated zone	    0.94    0.01
Smiley	   12       	Depth to saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18a.--Recreation--Continued

component name	Pct. of map unit	- 		Picnic areas   		Playgrounds     	
	   		•	Rating class and   limiting features	•	Rating class and limiting features	•
I44A: Boash	   8         	Depth to saturated zone Ponding	1.00    1.00	saturated zone	1.00    1.00	saturated zone Ponding	    1.00    1.00  0.96
Linveldt	   4   	  Somewhat limited:   Depth to   saturated zone	0.01	1	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Hapludolls	   1   	Flooding	:	· -		:	  1.00 
I45A: Northwood	     75 	  Not rated 	;   	    Not rated 	;   	    Not rated 	   
Hamre	10 	Not rated 		Not rated 	 	Not rated 	
Berner	5 	Not rated 	 	Not rated	 	Not rated 	
Kratka	5     	Depth to saturated zone	1.00	saturated zone	1.00	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strandquist	   3   	Depth to saturated zone	1.00	Depth to saturated zone	1.00	saturated zone	  1.00    1.00
Roliss	   2     	Depth to saturated zone	1.00	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00
I46A: Pits		Not rated		  Not rated		  Not rated	
Udipsamments	i	  Very limited:   Too sandy	į	  Very limited:   Too sandy	i I	  Very limited:   Too sandy	    1.00  1.00
Radium	   2 	  Somewhat limited:   Too sandy	0.36	  Somewhat limited:   Too sandy	:	  Somewhat limited:   Too sandy	0.36
Maddock	   1   	  Somewhat limited:   Too sandy 	•	  Somewhat limited:   Too sandy 	    0.31 	  Somewhat limited:   Slope   Too sandy	  0.50  0.31
Marquette	   1   	  Somewhat limited:   Too sandy 	  0.36 	  Somewhat limited:   Too sandy 	  0.36 	  Somewhat limited:   Slope   Too sandy	  0.88  0.36
Sandberg	   1     	:		  Somewhat limited:   Too sandy   Gravel content   		  Very limited:   Gravel content   Slope   Too sandy	  1.00  0.50  0.30

Table 18a.--Recreation--Continued

component name	Pct. of map unit	 		   Picnic areas     		   Playgrounds   	
	   	'		Rating class and   limiting features		Rating class and   limiting features	Value
I47A: Poppleton	     75     	Too sandy	    1.00  0.01	· -	      1.00 	  Very limited:   Too sandy   Depth to   saturated zone	    1.00  0.01
Flaming	   12     	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01	· -	    0.31   	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01
Garborg	   5     	Depth to saturated zone	0.99	  Somewhat limited:   Depth to   saturated zone   Too sandy	0.78	  Somewhat limited:   Depth to   saturated zone   Too sandy	  0.99    0.31
Hamar	i !	Depth to   saturated zone   Ponding	1.00	Depth to saturated zone Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding   Too sandy	  1.00    1.00  0.31
Radium	   2 	  Somewhat limited:   Too sandy	    0.36	!	    0.36	  Somewhat limited:   Too sandy	0.36
Ulen	   2   	  Somewhat limited:   Depth to   saturated zone   Too sandy	0.44	Depth to	0.31	  Somewhat limited:   Depth to   saturated zone   Too sandy	  0.44    0.31
Maddock	   1   	  Somewhat limited:   Too sandy	    0.31 	  Somewhat limited:   Too sandy 	    0.31 	  Somewhat limited:   Slope   Too sandy	  0.50  0.31
I48A: Radium	     75 	!	    0.36	    Somewhat limited:   Too sandy	    0.36	    Somewhat limited:   Too sandy	      0.36
Sandberg	   7   	  Somewhat limited:   Too sandy   Gravel content	  0.30  0.01		  0.30  0.01	•	  1.00  0.50  0.30
Oylen	   5	  Not limited		  Not limited		  Not limited	
Flaming	   4     	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01	  Somewhat limited:   Too sandy   	  0.31   	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01
Garborg	   3   	  Very limited:   Depth to   saturated zone   Too sandy	  0.99    0.31	  Somewhat limited:   Depth to   saturated zone   Too sandy	  0.78    0.31	  Somewhat limited:   Depth to   saturated zone   Too sandy	  0.99    0.31
Hangaard	   3   	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18a.--Recreation--Continued

	Pct. of map			Picnic areas		Playgrounds	
	unit   	Rating class and		Rating class and   limiting features			Value
I48A: Hamar	   2       	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone	    1.00    1.00  0.31
Poppleton	   1     	<u>-</u>	    1.00  0.01 	·	:	· -	  1.00  0.01 
I50A: Reiner	   70   		    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	0.01
Smiley	   12     	Depth to saturated zone		saturated zone	1.00	saturated zone	  1.00    1.00
Reiner, very cobbly	   7   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	0.01
Linveldt	   5   	1	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	0.01
Eckvoll	   3     	<u>-</u>	    0.31  0.01	· -	    0.31   	· -	  0.31  0.01
Kratka	   3     	saturated zone	  1.00    1.00	saturated zone	1.00	saturated zone	  1.00    1.00
I51A: Reiner	   65     	Too sandy	0.31		1	Too sandy	  0.31  0.01
Smiley	   9     	Depth to saturated zone	1.00	saturated zone	1.00	saturated zone	  1.00    1.00
Reiner fine sandy loam	   8 	  Somewhat limited:   Depth to   saturated zone	0.01	•	     	  Somewhat limited:   Depth to   saturated zone	0.01
Linveldt	   7   	  Somewhat limited:   Depth to   saturated zone	0.01	•	       	  Somewhat limited:   Depth to   saturated zone 	    0.01   

Table 18a.--Recreation--Continued

component name	Pct. of map unit	- 		   Picnic areas     		   Playgrounds   	
	   			Rating class and   limiting features	•	Rating class and	Value
	<u> </u>		1		1		1
I51A:	İ	İ	İ	İ	İ	İ	İ
Kratka	5	Very limited:	:	Very limited:	:	Very limited:	
		Depth to saturated zone	1.00	! -	1.00	! -	1.00
	 	Saturated zone   Ponding	1.00	saturated zone Ponding	  1.00	saturated zone Ponding	1.00
Eckvoll	 	Somewhat limited:		  Somewhat limited:	l I	Somewhat limited:	
DORVOIT		Too sandy	0.31	!	0.31	•	0.31
	i	Depth to	0.01		İ	Depth to	0.01
	į	saturated zone	į	  -	į	saturated zone	į
Reiner, very cobbly	   3	  Somewhat limited:		  Not limited		  Somewhat limited:	
		Depth to	0.01			Depth to	0.01
	 	saturated zone		 	 	saturated zone	
I52A:	į 		į		į		į
Reis	55	Very limited:		Very limited:	:	Very limited:	11 00
	l I	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Too clayey	11.00		1.00	Too clayey	1.00
	i	Restricted	0.96	·	0.96		0.96
	į	permeability	į	permeability	į	permeability	į
Clearwater	30	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00	! -	1.00	! -	1.00
		saturated zone		saturated zone	11 00	saturated zone	11.00
	 	Too clayey	1.00  1.00	·	1.00  1.00		11.00
	! 	Restricted	0.96	!	0.96	Restricted	0.96
	į	permeability	į	permeability	į	permeability	į
Clearwater, very	 	 		 	 	 	
cobbly	5	Very limited:	:	Very limited:	:	Very limited:	
		Depth to	1.00		1.00	<u> </u>	1.00
	 	saturated zone Too clayey	  1.00	saturated zone Too clayey	1.00	saturated zone Too clayey	1.00
	l I	Ponding	11.00		11.00		1.00
	i	Restricted	0.96	!	0.96	Restricted	0.96
	į	permeability	į	permeability	į	permeability	į
Clearwater,			[				
depressional	3	Very limited:		Very limited:	1	Very limited:	
		Depth to	1.00	Ponding	11.00		1.00
	l I	saturated zone Ponding	1 1.00	Depth to saturated zone	1.00	saturated zone Ponding	1 1.00
	i	Restricted	0.96	1	0.96	Restricted	0.96
	į	permeability	į	permeability	į	permeability	į
Espelie	   3	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00	! =	1.00		1.00
		saturated zone		saturated zone		saturated zone	
	l I	Ponding Restricted	1.00  0.96		1.00  0.96		1.00
		Restricted   permeability		permeability		Restricted   permeability	
Hattie	   3	  Very limited:	[ [	  Very limited:	 	  Very limited:	 
	İ	Too clayey	1.00	:	1.00	:	1.00
		Restricted	0.96	Restricted	0.96	Restricted	0.96
	ļ	permeability		permeability		permeability	
		Depth to	0.20	Depth to	0.10	Depth to	0.20
	I	saturated zone	I	saturated zone	I	saturated zone	I

Table 18a.--Recreation--Continued

Map symbol and component name	  Pct.   of	   Camp areas 		   Picnic areas 		   Playgrounds 	
	map  unit	 		 		 	
	<u> </u>	Rating class and limiting features		Rating class and limiting features	•	Rating class and limiting features	Value
I52A:	 	 	 	 	 	 	
Wyandotte	1 	Very limited:   Depth to	  1.00	Very limited:   Depth to	  1.00	Very limited:   Depth to	  1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding Restricted	1.00  0.96	Ponding   Restricted	1.00  0.96	Ponding   Restricted	1.00
		permeability		permeability		permeability	
I53A:		 	 	 	 	 	
Roliss	75 	Very limited:   Depth to	•	Very limited:   Depth to	  1.00	Very limited:   Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding	1.00 	Ponding 	1.00 	Ponding 	1.00 
Kratka	8	Very limited:	:	Very limited:	•	Very limited:	
	 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Roliss, very cobbly	7	  Very limited:	:	Very limited:	!	Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Kittson	   5	  Somewhat limited:	 	  Not limited	 	  Somewhat limited:	
		Depth to	0.01			Depth to	0.01
	 	saturated zone	 	 	 	saturated zone	
Roliss, depressional	3	Very limited:	:	Very limited:	•	Very limited:	
	 	Depth to saturated zone	1.00 	Ponding Depth to	1.00  1.00	Depth to saturated zone	1.00
	į	Ponding	1.00	saturated zone	į	Ponding	1.00
Smiley	2	  Very limited:		Very limited:		  Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		!	1.00	!	1.00	Ponding	1.00
I54A:	 	 	 	 	 	 	
Roliss, depressional	80	! -		Very limited:		Very limited:	
	 	Depth to saturated zone	1.00 		1.00  1.00		1.00
	İ	Ponding	1.00	saturated zone	İ	Ponding	1.00
Roliss	12		•	Very limited:	•	Very limited:	
		Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
		Ponding	1.00		1.00	Ponding	1.00
Hamre	   5	  Not rated	 	  Not rated	 	  Not rated	
Kratka	   3	  Very limited:	 	  Very limited:	 	  Very limited:	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		!	1.00	!	1.00	!	1.00
I55A:		 	 	 	 	 	 
Rosewood	75		:	Very limited:	:	Very limited:	
		Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
	I	I	I	I	I	I	I

Table 18a.--Recreation--Continued

component name	  Pct.   of  map	   Camp areas   		   Picnic areas   		   Playgrounds   	
	unit			<u> </u>		<u> </u>	
			Value	Rating class and	Value		Value
	L	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<del> </del>
I55A:	 	 		 		 	1
	10	Somewhat limited:	i	Somewhat limited:	i	Somewhat limited:	i
	į	Depth to	0.44	Depth to	0.22	Depth to	0.44
		saturated zone		saturated zone		saturated zone	
			ļ		ļ		ļ
Hamar	6 	Very limited:   Depth to	1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	1
	l I	saturated zone	1	saturated zone	1	saturated zone	1
	! 	!	1.00	!	1.00	Ponding	1.00
	İ	!	0.31	!	0.31	Too sandy	0.31
	ĺ	İ	Ì	İ	Ì	İ	İ
Rosewood,			ļ		ļ		İ
depressional	3	Very limited:	:	Very limited:	:	Very limited:	
	 	Depth to saturated zone	1.00		1.00  1.00	Depth to saturated zone	1.00
	! 	!	1		1	Ponding	1
	İ		i		i		i
Syrene	3	Very limited:	ĺ	Very limited:	ĺ	Very limited:	İ
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Karlsruhe	   1	  Somewhat limited:		  Somewhat limited:		  Somewhat limited:	1
	i -	Depth to	0.44	!	0.22	!	0.44
	į	saturated zone	j	saturated zone	j	saturated zone	į
			ļ		ļ		İ
Strathcona	1	Very limited:	:	Very limited:	:	Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	! 	Ponding	1	!	1	Ponding	1
	į		İ	İ	İ	İ	i
Thiefriver	1	Very limited:		Very limited:		Very limited:	
	!	<u>.                                      </u>	1.00	! -	1.00	! -	1.00
	 	saturated zone	11.00	saturated zone	11 00	saturated zone Ponding	11 00
	 		10.96	!	1.00  0.96	!	1.00  0.96
	! 	permeability		permeability	1	permeability	1
	į		j	į -	j	i -	i
I57B:	!		ļ		ļ		!
Sandberg	50	Somewhat limited:	!	Somewhat limited:		Very limited:	
	 	Too sandy Gravel content	0.30  0.01	Too sandy Gravel content	0.30  0.01	Gravel content	1.00  0.50
	! 	Graver concent		Graver concent		Too sandy	0.30
	į		i	İ	i	i i	i
Radium	25	Somewhat limited:		Somewhat limited:		Somewhat limited:	
		Too sandy	0.36	Too sandy	0.36	Too sandy	0.36
Sioux	l I8	  Not limited		  Not limited		  Not limited	1
22042			i		i		i
Oylen	7	Not limited		Not limited		Not limited	İ
Flaming			ļ		ļ		
Flaming	l s	Somewhat limited:   Too sandy	0.31	Somewhat limited:   Too sandy	0.31	Somewhat limited:   Too sandy	0.31
	! 	<u>-</u>	0.01	·	1	Depth to	0.01
	į	saturated zone		į	į	saturated zone	
		[		ļ		ļ	I
Garborg	5	Very limited:	:	Somewhat limited:	:	Somewhat limited:	
		Depth to saturated zone	0.99	Depth to saturated zone	0.78	Depth to saturated zone	0.99
	l I	Too sandy	0.31	!	0.31	Too sandy	0.31

Table 18a.--Recreation--Continued

component name	Pct. of map	   Camp areas   		   Picnic areas   		   Playgrounds   	
	unit			<u> </u>		<u> </u>	
	 	Rating class and   limiting features	Value 	Rating class and   limiting features	Value 	Rating class and   limiting features	Value
	l						
I58A: Seelyeville	   90 	  Not rated 	   	  Not rated 	   	  Not rated 	   
Cathro	   3 	  Not rated 		  Not rated 		  Not rated 	į
Dora	3	  Not rated		  Not rated 		  Not rated	
Markey	   3	  Not rated 		  Not rated		  Not rated	
Berner	1	  Not rated		  Not rated		  Not rated	
159A:	 	 	 	 	 	 	
Smiley	   65   	• -	•	  Very limited:   Depth to   saturated zone	  1.00 	  Very limited:   Depth to   saturated zone	  1.00 
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Smiley, very cobbly	   10     	Depth to saturated zone	 	saturated zone	 	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Kratka	   9 	  Very limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone	    1.00
	į		1.00		1.00		1.00
Roliss	   5   	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Reiner	   4 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Linveldt	   3   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Smiley, depressional	   3   	saturated zone	 	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strandquist	   1   	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I60A: Smiley, depressional	     80   	Depth to saturated zone	      1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone	      1.00  1.00	  Very limited:   Depth to   saturated zone   Ponding	      1.00    1.00
Smiley	   10       	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18a.--Recreation--Continued

component name	Pct.   Of   map   unit			   Picnic areas   		   Playgrounds   	
	   		Value	Rating class and   limiting features		Rating class and   limiting features	Value
I60A:	 	 	 	 	 	 	
Hamre	5	Not rated	į	Not rated	į	Not rated	į
Kratka	   5	  Very limited:	 	  Very limited:	 	  Very limited:	
	İ		1.00		1.00	! -	1.00
	 	saturated zone Ponding	  1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
I61A:							
Strandquist	70 	<u> </u>	  1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	11.00
	<u> </u>	saturated zone		saturated zone		saturated zone	
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Mavie	   8	  Very limited:	 	  Very limited:	 	  Very limited:	
			:		1.00		1.00
	ĺ	saturated zone	Ì	saturated zone	Ì	saturated zone	İ
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Roliss	   7	  Very limited:		  Very limited:		  Very limited:	
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	l I	Ponding 	1.00 	Ponding	1.00 	Ponding	1.00
Kratka	5	  Very limited:	i	  Very limited:	i	  Very limited:	i
	ļ	<u>.                                      </u>	1.00	<u>.                                      </u>	1.00	! -	1.00
	 	saturated zone Ponding	  1.00	saturated zone Ponding	1.00	saturated zone Ponding	11.00
	i						
Foxhome	4	Somewhat limited:	!	Not limited	ļ	Somewhat limited:	
	 	Depth to saturated zone	0.01 	 	l I	Depth to saturated zone	0.01
				 			i
Hangaard	3	Very limited:	:	Very limited:		Very limited:	ļ
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	!	1.00	!	1.00	Ponding	1.00
	į	İ	į	İ	į	į	į
Northwood	3 	Not rated 	 	Not rated 	 	Not rated 	l i
I62A:	<u> </u>	 		 		 	i
Syrene	70	•		Very limited:		Very limited:	ļ
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	! 	Ponding	1.00	1	1.00	Ponding	1.00
	İ		į		į		İ
Rosewood	11	• -	11.00	Very limited:   Depth to	  1.00	Very limited:   Depth to	1.00
	 	saturated zone	1	saturated zone	1	saturated zone	1
	İ	Ponding	1.00	!	1.00	Ponding	1.00
Hangaard	 	  Very limited:	 	  Very limited:	 	  Very limited:	
nanyaaru	3	Depth to	1.00	•	1.00	Very limited:   Depth to	1.00
	İ	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Karlsruhe	   4	  Somewhat limited:	 	  Somewhat limited:	 	  Somewhat limited:	
	i	Depth to	0.44	'	0.22	•	0.44

Table 18a.--Recreation--Continued

Map symbol and component name	Pct. of map	i !		Picnic areas		Playgrounds   Playgrounds	
	unit		Value	Rating class and	l Value	Rating class and	Value
	İ	limiting features	varue	limiting features	varue	limiting features	varue
			Ī		ĺ		
I62A: Deerwood	   3 	  Not rated 	   	  Not rated 	   	  Not rated 	   
Hamar	3	! -	1.00	! -	1.00		1.00
	     	!	1.00	saturated zone Ponding Too sandy	1.00	saturated zone Ponding Too sandy	1.00
Strandquist	   2 	  Very limited:   Depth to   saturated zone	1 1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	1   1.00
	   	!	1.00	!	1.00	Ponding	1.00
Radium	1	Somewhat limited:   Too sandy	0.36	Somewhat limited:   Too sandy	0.36	Somewhat limited:   Too sandy	0.36
Wyandotte	   1 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00
	   	Ponding   Restricted   permeability	1.00  0.96 	!	1.00  0.96 	Ponding   Restricted   permeability	1.00  0.96 
I63A:							
Thiefriver	70 	Depth to	1.00	! -	1.00	Very limited:   Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	   	Ponding   Restricted   permeability	1.00  0.96 	!	1.00  0.96 	Ponding   Restricted   permeability	1.00  0.96
Espelie	   10 	  Very limited:   Depth to   saturated zone	1   1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
	 	Restricted   permeability	0.96 	Restricted   permeability	0.96	Restricted   permeability	0.96
Foxlake	   7	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	1   1.00
	i	saturated zone		saturated zone		saturated zone	
			1.00  0.96		1.00  0.96	Ponding   Restricted	1.00
		permeability		permeability		permeability	
Huot	   5 	  Somewhat limited:   Restricted	0.96	  Somewhat limited:   Restricted	0.96	  Somewhat limited:   Restricted	0.96
		permeability	0.01	permeability		permeability Gravel content	0.06
	   	saturated zone		   	   	Depth to saturated zone	0.01
Clearwater,	 		 	 	 		 
depressional	3 	Very limited:   Depth to	1.00	Very limited:   Ponding	  1.00	Very limited:   Depth to	1.00
	İ	saturated zone		Depth to	1.00	saturated zone	
		-	1.00	•		Ponding	1.00
	 	Restricted permeability	0.96 	Restricted permeability	0.96 	Restricted permeability	0.96 
	i		i		i		i

Table 18a.--Recreation--Continued

component name	  Pct.   of  map  unit	 		   Picnic areas   		   Playgrounds   	
	unii c   	'	:	Rating class and limiting features		Rating class and limiting features	•
		ļ	ļ	ļ	!	!	[
I63A: Rosewood	 	 		  Very limited:		  Very limited:	
ROSEWOOQ	]	! -	:	:	1	:	1.00
	İ	saturated zone		saturated zone		saturated zone	i
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Ulen	   1	  Somewhat limited:		  Somewhat limited:		  Somewhat limited:	
	İ	•	•			•	0.44
		saturated zone	ļ	saturated zone	ļ	saturated zone	!
Wyandotte	   1	  Very limited:	 	  Very limited:	l I	  Very limited:	 
•	İ	! -	:			!	1.00
		saturated zone	:	saturated zone	!	saturated zone	
	l I	!	:	· -	:	!	1.00  0.96
	 	restricted   permeability		restricted   permeability	1	restricted   permeability	
							!
I64A: Ulen	l l 70	  Somewhat limited:	 	  Somewhat limited:	 	  Somewhat limited:	
	j	•		•		•	0.44
		saturated zone		saturated zone		saturated zone	
Rosewood	   10	  Very limited:	 	  Very limited:	 	  Very limited:	
	j		•				1.00
	ļ	saturated zone	:	saturated zone	!	saturated zone	:
	l I	Ponding 	1.00 	Ponding 	1.00 	Ponding 	1.00 
Flaming	8	Somewhat limited:	i	Somewhat limited:		Somewhat limited:	i
		<u> </u>	:	<u>-</u>	0.31	<u>-</u>	0.31
	l I	Depth to saturated zone	0.01	 	l I	Depth to saturated zone	0.01
			i	 			i
Karlsruhe	5	•	•	•		•	
	 	Depth to saturated zone	:	Depth to saturated zone	:	Depth to   saturated zone	0.44
			i				i
Radium	3	!	!	Somewhat limited:	!	Somewhat limited:	
	l I	Too sandy 	0.36 	Too sandy	0.36 	Too sandy 	0.36 
Strathcona	2	  Very limited:	i	  Very limited:	i	  Very limited:	i
	ļ	Depth to	1.00	:	1.00	•	1.00
	 	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00
Thiefriver	2	Very limited:	!	Very limited:	1	Very limited:	[
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	l I	Ponding	1	!	1	!	1.00
	İ	Restricted	0.96		0.96		0.96
		permeability		permeability		permeability	
I65A:	 	 		 		 	
Ulen	70	Somewhat limited:	:	Somewhat limited:		Somewhat limited:	
	 	Depth to saturated zone	0.44		0.31 0.22	Depth to saturated zone	0.44
		Too sandy	0.31	! -		Too sandy	0.31
D		 		 			
Rosewood	10 	Very limited:   Depth to	  1.00	Very limited:   Depth to	  1.00	Very limited:   Depth to	  1.00
		saturated zone	1	saturated zone		saturated zone	
	I	Bacaracea Zone	1	Saturated Zone	I	Sacuraced Zone	1

Table 18a.--Recreation--Continued

component name	Pct. of map	 		   Picnic areas   		   Playgrounds   	
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I65A: Flaming	     6   		      0.31  0.01	  Somewhat limited:   Too sandy 	      0.31 	  Somewhat limited:   Too sandy   Depth to   saturated zone	    0.31  0.01
Poppleton	   4   		    1.00  0.01	· -	    1.00 	  Very limited:   Too sandy   Depth to   saturated zone	  1.00  0.01
Karlsruhe	   3   	  Somewhat limited:   Depth to   saturated zone	    0.44 	  Somewhat limited:   Depth to   saturated zone	    0.22 	  Somewhat limited:   Depth to   saturated zone	    0.44 
Radium	   3 	  Somewhat limited:   Too sandy	0.36	  Somewhat limited:   Too sandy	    0.36	  Somewhat limited:   Too sandy	0.36
Strathcona	   2     	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	  -  1.00    1.00	saturated zone	  1.00    1.00
Thiefriver	   2         	saturated zone Ponding	  1.00    1.00  0.96	saturated zone Ponding	    1.00    1.00  0.96	saturated zone Ponding	  1.00    1.00  0.96
I66A: Vallers	     75   	! - T	      1.00	    Very limited:   Depth to   saturated zone	      1.00	    Very limited:   Depth to   saturated zone	      1.00
Vallers, very cobbly	     7   	  Very limited:   Depth to   saturated zone	1.00      1.00    1.00	  Very limited:   Depth to   saturated zone	1.00      1.00    1.00	  Very limited:   Depth to   saturated zone	1.00      1.00    1.00
Hamerly	   6   	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.90 	  Very limited:   Depth to   saturated zone	    1.00
Grimstad	   3   	Very limited: Depth to saturated zone	    0.99 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.99 
Mavie	   3   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Roliss, depressional	   3     	saturated zone	    1.00    1.00	Depth to	    1.00  1.00 	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18a.--Recreation--Continued

= =	Pct.	Camp areas		Picnic areas		Playgrounds	
-	map  unit	 		 		  -	
	   	'	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
	ļ						
I66A: Strathcona	   २	  Very limited:	1	  Very limited:	1	  Very limited:	
beraemeena		Depth to	1.00	! -	1.00	!	1.00
	į	saturated zone	i	saturated zone	i	saturated zone	i
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
I67A:	 	 	 	 	 	 	
Wheatville	70	Very limited:	İ	Somewhat limited:	İ	Very limited:	į
	!	Depth to	1.00	!	0.96	! -	1.00
		saturated zone		permeability		saturated zone	
	l I	Restricted permeability	0.96 	Depth to saturated zone	0.90 	Restricted permeability	0.96 
	İ		i		i		i
Augsburg	13	! -	:	Very limited:	:	Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	l I	Ponding	1	!	1	Ponding	1 1.00
	i	Restricted	0.96	!	0.96		0.96
	į	permeability	į	permeability	į	permeability	į
Glyndon	   8	  Very limited:		  Very limited:		  Very limited:	
027.14011		Depth to	1.00	: -	1.00	!	1.00
	į	saturated zone	į	saturated zone	į	saturated zone	į
Foxlake	   5	  Very limited:	 	  Very limited:	 	  Very limited:	
	i	Depth to	1.00	: -	1.00		1.00
	İ	saturated zone	į	saturated zone	į	saturated zone	į
		Ponding	1.00	Ponding	1.00	Ponding	1.00
	!	Restricted	0.96	!	0.96	Restricted	0.96
	 	permeability 	 	permeability	 	permeability 	
Hilaire	2	Somewhat limited:	,	Somewhat limited:		Somewhat limited:	į
	!	Restricted	0.96	!	0.96	!	0.96
	 	permeability		permeability		permeability	
	 	Too sandy Depth to	0.31	Too sandy	0.31	Too sandy Depth to	0.31
	<u> </u>	saturated zone		İ	i	saturated zone	
Ulen		  Somewhat limited:		  Somewhat limited:		Somewhat limited:	
01611	-	Depth to	0.44	!	0.31	!	0.44
	İ	saturated zone	i	Depth to	0.22	saturated zone	i
	ļ	Too sandy	0.31	saturated zone		Too sandy	0.31
I69A:	 	 	 	 	 	 	
Wyandotte	65	Very limited:	i	Very limited:	i	Very limited:	i
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	1
		Ponding	11.00		11.00	Ponding	1.00
	 	Restricted permeability	0.96	Restricted permeability	0.96 	Restricted permeability	0.96
			ļ		ļ		İ
Foxlake	10		1	Very limited:	:	Very limited:	11 00
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	<u> </u>	Ponding	1	!	1	Ponding	1 1.00
	į	Restricted	0.96		0.96	Restricted	0.96
	I	permeability	I	permeability	1	permeability	1

Table 18a.--Recreation--Continued

Map symbol and component name	Pct. of map unit	- 		Picnic areas   		Playgrounds     	
				Rating class and limiting features		Rating class and   limiting features	Value
I69A:	İ	   	İ	   	   	   	İ
Espelie	8       	Very limited:   Depth to   saturated zone   Ponding   Restricted	  1.00    1.00  0.96	saturated zone Ponding	  1.00    1.00  0.96	saturated zone Ponding	  1.00    1.00  0.96
	 	permeability	 	permeability	 	permeability	
Clearwater, depressional	5   5 	Very limited: Depth to saturated zone Ponding	    1.00    1.00	Depth to	  1.00  1.00	! -	    1.00    1.00
	 	Restricted permeability	0.96	Restricted permeability	0.96	Restricted permeability	0.96
Thiefriver	   5       	Very limited:   Depth to   saturated zone   Ponding   Restricted   permeability	  1.00    1.00  0.96	saturated zone Ponding	  1.00    1.00  0.96	saturated zone Ponding	  1.00    1.00  0.96
Karlsruhe	   4   	  Somewhat limited:   Depth to   saturated zone	  0.44 	  Somewhat limited:   Depth to   saturated zone	0.22	  Somewhat limited:   Depth to   saturated zone	0.44
Syrene	   3   	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	1.00	saturated zone	  1.00    1.00
I70A:	 	 	 	 		 	
Strathcona	70     	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Kratka	   10     	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Roliss	   6   	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Grimstad	   5   	  Very limited:   Depth to   saturated zone	0.99	  Somewhat limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	    0.99 
Mavie	   3   	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Rosewood	;   3     	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00	Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00

Table 18a.--Recreation--Continued

component name	Pct. of map unit	 		Picnic areas		Playgrounds     	
	   	'	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
I70A: Strathcona, depressional	       3   	saturated zone	        1.00	Depth to	        1.00  1.00	Very limited: Depth to saturated zone Ponding	        1.00    1.00
I71A: Berner, ponded	     45	    Not rated	   	    Not rated	   	    Not rated	
Cathro, ponded	   45 	  Not rated 	   	  Not rated 	   	  Not rated 	   
Hamre	2	  Not rated 		  Not rated 		  Not rated 	
Kratka	   2     	saturated zone		saturated zone	  1.00    1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Northwood	2	  Not rated 		  Not rated 		  Not rated 	
Roliss	   2     	saturated zone	  1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Seelyeville, ponded	   2 	  Not rated 	   	  Not rated 	!   	  Not rated 	   
I72A: Pelan	   65   	!	    0.01	  Not limited   	       	  Somewhat limited:   Depth to   saturated zone	0.01
Smiley	   10     	Depth to saturated zone	  1.00    1.00	saturated zone	 	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Linveldt	   8   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Kratka	   5   	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Strandquist	   5     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Reiner	   4   	  Somewhat limited:   Depth to   saturated zone	    0.01	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.01 
Eckvoll	   3     		  0.31  0.01 	  Somewhat limited:   Too sandy     	    0.31     	  Somewhat limited:   Too sandy   Depth to   saturated zone	  0.31  0.01 

Table 18a.--Recreation--Continued

	Pct.	Camp areas		Picnic areas		Playgrounds	
component name	map	! 		! 		! 	
	unit			<u> </u>			
		Rating class and	Value	Rating class and	Value	Rating class and	Value
		limiting features	<u> </u>	limiting features		limiting features	<u> </u>
173A:			!		ļ	  -	
Boash	   75	  Very limited:		  Very limited:	l I	  Very limited:	
boasii	, , , , , , , , , , , , , , , , , , ,	! -	1	! -	11.00	!	11.00
	i	saturated zone		saturated zone		saturated zone	
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
	ĺ	Restricted	0.96	Restricted	0.96	Restricted	0.96
		permeability		permeability		permeability	
_			ļ		ļ		İ
Clearwater	8	Very limited:	:	Very limited:	:	Very limited:	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	!	1	!	1.00	Too clayey	1 1.00
	! 		11.00		11.00	Ponding	11.00
	i	!	0.96	· -	0.96	Restricted	0.96
	į	permeability	į	permeability	İ	permeability	į
	ĺ	ĺ	İ	İ	Ì	İ	İ
Roliss	8	Very limited:		Very limited:		Very limited:	
		! -	1.00	! -	1.00	! -	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Clearwater,	l I	 		 		 	
depressional	l I 5	  Very limited:	ŀ	  Very limited:	i	  Very limited:	i
	i	! =	1.00	! -	1.00	Depth to	1.00
	į	saturated zone	į	Depth to	1.00	saturated zone	į
		Ponding	1.00	saturated zone		Ponding	1.00
		Restricted	0.96	!	0.96	Restricted	0.96
	!	permeability	ļ	permeability	ļ	permeability	ļ
Vittan		  Companies limited		  Not limited		  Somewhat limited:	
Kittson	<u> </u>	Somewhat limited:   Depth to	0.01	Not limited	l I	Depth to	0.01
	! 	saturated zone	1	! 	i	saturated zone	1
	i		i		i		i
Newfolden	2	Somewhat limited:	į	Somewhat limited:	İ	Somewhat limited:	į
		Restricted	0.94	Restricted	0.94	Restricted	0.94
		permeability		permeability		permeability	
		! -	0.01			Depth to	0.01
	 	saturated zone		l I		saturated zone	
I74A:	l I	 		 		 	1
Urban land	65	  Not rated	i	  Not rated	i	  Not rated	i
	İ	İ	i	İ	i	İ	i
Endoaquents	35	Not rated	İ	Not rated	Ì	Not rated	İ
I75A:			ļ		ļ		ļ
Radium	40	!	•	Somewhat limited:		Somewhat limited:	
	 	Too sandy	0.36	Too sandy	0.36	Too sandy	0.36
Sandberg	   20		1	  Somewhat limited:	 	  Very limited:	
201102019	= 0	!	0.30	!	0.30	!	1.00
	İ		0.01		0.01	!	0.50
		I	1	I		Too sandy	0.30
	ļ	!	ļ.	!		!	[
Garborg	15		•	Somewhat limited:		Somewhat limited:	
		! -	0.99	! -	0.78	!	0.99
	l I	saturated zone Too sandy	  0.31	saturated zone Too sandy	  0.31	saturated zone Too sandy	  0.31
	l I	100 sandy	U.JI	l 100 sandy	U.JI	l 100 sandy	10.31
Oylen	1 10	  Not limited	i	  Not limited	i	  Not limited	i
-	i		i		i		i
		•		•	•	•	

Table 18a.--Recreation--Continued

Map symbol and	Pct.	Camp areas		Picnic areas		Playgrounds	
	of						
İ	map			İ			
	unit						
		Rating class and	Value	Rating class and	Value	Rating class and	Value
		limiting features	<u> </u>	limiting features	İ	limiting features	<u> </u>
I							
175A:				l			
Flaming	5	Somewhat limited:		Somewhat limited:		Somewhat limited:	
I		Too sandy	0.31	Too sandy	0.31	Too sandy	0.31
I		Depth to	0.01	l		Depth to	0.01
		saturated zone	ļ		ļ	saturated zone	ļ
Karlsruhe	l I 3	  Somewhat limited:	 	  Somewhat limited:	 	  Somewhat limited:	1
1441 151 4110		Depth to	0.44	Depth to	0.22	Depth to	0.44
		saturated zone		saturated zone		saturated zone	
			ļ.		ļ.		İ
Venlo	3	Very limited:		Very limited:		Very limited:	!
		Depth to	1.00	Ponding	1.00		1.00
		saturated zone	!	Depth to	1.00	saturated zone	!
	i	Ponding	1.00	saturated zone	!	Ponding	1.00
Hangaard	2	  Very limited:	i	  Very limited:	i	  Very limited:	i
İ		Depth to	1.00	Depth to	1.00	Depth to	1.00
İ		saturated zone	İ	saturated zone	İ	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Sioux	2	  Not limited		  Not limited		Not limited	
M-W:		 		 			
Miscellaneous water	100	Not rated	ŀ	  Not rated	ŀ	Not rated	ł
			į		i		İ
W:							
Water	100	Not rated		Not rated		Not rated	

## Table 18b.--Recreation

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

component name	Pct. of	į	s	Off-road motorcycle trai	ls	Golf fairways	3
	map  unit	!		 		 	
		Rating class and		Rating class and			
	<u> </u>	limiting features		limiting features		limiting features	<del> </del>
B109A:	 	  -		l I		 	
Bowstring	l I 45	  Verv limited:	1	  Very limited:		  Very limited:	i
205012115		Depth to				Ponding	1.00
	i	saturated zone	i	saturated zone	i	Flooding	1.00
	i	Content of	1.00	Content of	1.00	Content of	1.00
	İ	organic matter	į	organic matter	į į	organic matter	İ
	ĺ	Ponding	1.00	Ponding	1.00	Depth to	1.00
		Flooding	0.60	Flooding	0.60	saturated zone	
		<u> </u>	1				
Fluvaquents	40			Very limited:		Very limited:	
	ļ	! -	11.00	<u> </u>	:	Ponding	1.00
	ļ	saturated zone		saturated zone		Flooding	1.00
		!	:		:	Depth to saturated zone	1.00
	 	Flooding	0.60	Flooding	0.60 	saturated zone	
Hapludalfs	   5	  Very limited:	i	  Somewhat limited:		  Very limited:	
naprudaris	1			!	:	Slope	11.00
	! 	blope	1	blope		blope	1
Seelyeville	l I 5	  Verv limited:	i	  Very limited:		  Very limited:	i
•	i				:	Ponding	1.00
	i	saturated zone	i	saturated zone		Flooding	1.00
	i	!	1.00	Ponding	1.00	Depth to	1.00
	İ	Flooding	0.60	Flooding	0.60	saturated zone	į
Water	   5	  Not rated	 	  Not rated	 	  Not rated	
			!				!
B200A:							
Garnes	70 	NOT limited		Not limited		Not limited	
Chilgren	l I 13	  Verv limited:	1	  Very limited:		  Very limited:	1
CIIIIGICII	1 -3					Depth to	1.00
	i	saturated zone	:	saturated zone		saturated zone	
	i			!	1.00	Ponding	1.00
	į	İ	i	İ	į į		i
Eckvoll	5	Not limited	İ	Not limited		Not limited	İ
Garnes, very stony	I   5	  Somewhat limited:	1	  Somewhat limited:		  Somewhat limited:	1
Carnos, 102, 2001,	i	!	:			Content of large	0.01
	i					stones	
		ļ	1	[			
Grygla	4	! -	:	Very limited:	:	Very limited:	1
	ļ	Depth to		•	1.00	•	1.00
	ļ	saturated zone		saturated zone		saturated zone	
		Ponding			1.00	-	1.00
	 	Too sandy	0.12	Too sandy	0.12	 	
Pelan	3	  Not limited		  Not limited		  Not limited	
B201A:	 	 		 		 	1
Chilgren	l   75	  Very limited:		  Very limited:		  Very limited:	1
	, ,,		•	•		Depth to	1.00
	<u>'</u>	saturated zone	1	saturated zone	1	saturated zone	1
	i	Ponding	1.00	•	1.00	•	11.00
	:						!

Table 18b.--Recreation--Continued

component name	Pct.	!	s	Off-road motorcycle trai	ls	Golf fairways	3
	map						
	unit	   Rating class and	177-1		177-1	Rating class and	177- 7
	l I	limiting features	varue	limiting features	varue	limiting features	Value
		 	i	 	i	 	i
B201A:	ĺ	İ	Ì	İ	Ì	İ	İ
Garnes	9	Not limited		Not limited		Not limited	
Grygla	   5	  Very limited:		  Very limited:	l I	  Very limited:	
GI Y GI A GI Y GI A GI A GI A GI A GI A	]		1	:	11.00	:	11.00
	İ	saturated zone		saturated zone		saturated zone	
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
	İ	Too sandy	0.12	Too sandy	0.12	İ	İ
			!		ļ		İ
Grygla, depressional	5	Very limited:	:	Very limited:	:	Very limited:	
		<u>.                                      </u>	1.00	! -	1.00	!	11.00
	l I	saturated zone Ponding	1.00	saturated zone Ponding	1.00	Depth to saturated zone	1.00
	l I		0.12	· -	0.12	sacuraced zone	1
	 	100 sandy		100 sandy		! 	i
Hamre	5	  Very limited:	i	  Very limited:	į	  Very limited:	í
	j	Depth to	1.00	Depth to	1.00	Ponding	1.00
		saturated zone		saturated zone		Content of	1.00
		Content of	1.00	Content of	1.00	organic matter	
		organic matter	!	organic matter		Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	
Pelan	l l 1	  Not limited		  Not limited		  Not limited	
	i -		i		i		i
B202A:	į		i	İ	i	İ	i
Cathro	80	Very limited:		Very limited:		Very limited:	
		Depth to	1.00	Depth to	1.00	Ponding	1.00
		saturated zone	!	saturated zone		Content of	1.00
		Content of	1.00	!	1.00	organic matter	
	l I	organic matter Ponding	1	organic matter Ponding	1.00	Depth to saturated zone	1.00
	 		1	ronarng	1	sacuraced zone	¦
Hamre	8	Very limited:	į	Very limited:	j	Very limited:	į
		Depth to	1.00	Depth to	1.00	Ponding	1.00
		saturated zone		saturated zone		Content of	1.00
		Content of	1.00	!	1.00	organic matter	
	 	organic matter	11 00	organic matter	11 00	Depth to saturated zone	1.00
	l I	Ponding 	1.00	Ponding 	1.00	saturated zone	
Chilgren	   3	  Very limited:	i	  Very limited:	i	  Very limited:	i
•	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
	ĺ	saturated zone	İ	saturated zone	ĺ	saturated zone	İ
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Northwood	,	  Very limited:		 		  Town limited	
NOI CIIWOOG	l 3	• -		Very limited:   Depth to		Very limited:   Ponding	1 1.00
	! 	saturated zone		saturated zone		Depth to	1.00
	İ		1.00	!	1.00	<u> </u>	
Berner	2	Very limited:	:	Very limited:	1	Very limited:	1
		Depth to	1.00		1.00		1.00
	l i	saturated zone	11 00	saturated zone		Content of	1.00
	l I	Content of organic matter	1.00	Content of organic matter	1.00	organic matter Depth to	1 1.00
	 	Ponding	1.00	•	1.00	:	1
	İ			į			i
Grygla	2	Very limited:	1	Very limited:		Very limited:	ĺ
			1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
			1.00	•	1.00	:	1.00
		Too sandy	0.12	Too sandy	0.12	I	1

Table 18b.--Recreation--Continued

component name	Pct. of map unit		s	Off-road   motorcycle trai 	ls	   Golf fairways   	
	unite   		•	Rating class and limiting features		Rating class and   limiting features	Value
B202A: Seelyeville	   2     	Depth to saturated zone	:	saturated zone	      1.00    1.00	Depth to	      1.00  1.00
B203A: Northwood	   75     	Depth to saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	Depth to	  1.00  1.00
Hamre	   10       	saturated zone Content of organic matter	  1.00    1.00    1.00	saturated zone Content of organic matter		Depth to	  1.00  1.00    1.00
Grygla	   7     	saturated zone Ponding	•	saturated zone Ponding	  1.00    1.00  0.12	saturated zone Ponding	  1.00    1.00
Berner	   5       	Depth to saturated zone Content of organic matter	:	organic matter	  1.00    1.00    1.00	Content of organic matter Depth to	  1.00  1.00      1.00
Chilgren	   3     	saturated zone	1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
B204A: Roliss	     75   	Depth to saturated zone	1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Grygla	   8       	Depth to saturated zone Ponding	1.00	saturated zone Ponding	  1.00    1.00  0.12	saturated zone Ponding	  1.00    1.00
Chilgren	   5     	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	  1.00    1.00
Garnes	į	  Not limited 	į	  Not limited 	   	  Not limited 	
Roliss, depressional	5       	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	Depth to	  1.00  1.00 

Table 18b.--Recreation--Continued

component name	Pct. of map		s	Off-road motorcycle trai	ls	   Golf fairways   	3
	unit   	   Rating class and   limiting features		Rating class and   limiting features	•	Rating class and   limiting features	
			İ				
B204A: Hamre		  Very limited:			!		!
namre	<u>4</u> 		:	Very limited:   Depth to	1	Very limited:   Ponding	1
	i	saturated zone		saturated zone		Content of	1.00
	i	Content of	1.00	Content of	1.00	organic matter	i
		organic matter		organic matter		Depth to	1.00
	ļ	Ponding	1.00	Ponding	1.00	saturated zone	!
B205A:	 	l I		  -		l I	!
Berner	l I 80	  Verv limited:		  Very limited:		  Very limited:	1
2011101			:	Depth to	:	Ponding	1.00
	i	saturated zone	i	saturated zone	i	Content of	1.00
		Content of	1.00	Content of	1.00	organic matter	1
	ļ	organic matter		organic matter	!	Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	!
Northwood	   7	  Very limited:		  Very limited:		  Very limited:	
NOI CHWOOD	, '		:	Depth to	:	Ponding	1.00
	i	saturated zone	:	saturated zone	:	Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	1
	_		ļ		ļ		ļ
Grygla	5 	• -		Very limited:   Depth to	:	Very limited:	11.00
	l I	saturated zone	1	saturated zone	!	Depth to saturated zone	1
		!	11.00	!	!	Ponding	11.00
	İ	!	0.12	!	0.12	!	i
		!		!	[	!	
Cathro	3	Very limited:	:	Very limited:	:	Very limited:	
		Depth to saturated zone	11.00	Depth to saturated zone	11.00	Ponding Content of	1.00
		Content of	1	!	1	!	1
	i	organic matter				Depth to	1.00
	İ	Ponding	1.00	Ponding	1.00	saturated zone	į
					!		!
Hamre	3	Very limited:	:	Very limited:	•	Very limited:	
	 	Depth to saturated zone	11.00	Depth to saturated zone	1.00	Ponding Content of	1.00
			1	Content of	1	organic matter	1
	i	organic matter	i	organic matter	•	Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	1
- 1 111			ļ		ļ		!
Seelyeville	<u>4</u> 	Very limited:   Depth to	1.00	Very limited:   Depth to	1	Very limited:   Ponding	1.00
		saturated zone	1	saturated zone	1	Depth to	1.00
	İ	!	1.00	!	1.00	<u> </u>	i
	ĺ	İ	Ì	İ	İ	İ	İ
B206A:		 		 		 	
Hamre	1 80	• -	11.00	Very limited:   Depth to	1.00	Very limited:   Ponding	1.00
	i	saturated zone		saturated zone		Content of	1.00
	i	!	1.00	!	1.00	!	
		organic matter		organic matter		Depth to	1.00
	ļ	Ponding	1.00	Ponding	1.00	saturated zone	ļ
Chil		 		 		 	
Chilgren	l 8	Very limited:   Depth to	  1.00	Very limited:   Depth to	  1.00	Very limited:   Depth to	11.00
	¦	saturated zone		saturated zone	1	saturated zone	1
	i	•	1.00	•	1.00	•	1.00
	i	- i	i	i	i	-	i

Table 18b.--Recreation--Continued

component name	Pct. of map unit	 	s	Off-road   motorcycle trai 	ls	Golf fairways   	3
		Rating class and		Rating class and	•		
	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
B206A:	i	İ		İ	i		
Northwood	5	Very limited:		Very limited:		Very limited:	1
	ļ	!			:	Ponding	1.00
		saturated zone Ponding	:	saturated zone Ponding	11.00	Depth to saturated zone	1.00
	i						i
Cathro	3	Very limited:	İ	Very limited:	İ	Very limited:	İ
	ļ	Depth to	1.00	Depth to		Ponding	1.00
		saturated zone		saturated zone	:	Content of	1.00
		Content of   organic matter	11.00	Content of organic matter	1.00	organic matter Depth to	1
	 	!	I I1.00		1	! -	1
	i						i
Grygla	2	Very limited:	į	Very limited:	į	Very limited:	į
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	ļ	saturated zone	:	saturated zone		saturated zone	1
					:	Ponding	11.00
	 	Too sandy	0.12	Too sandy	0.12	 	-
Roliss	2	  Very limited:	i	  Very limited:	i	  Very limited:	i
	i	! -	:		•	Depth to	1.00
	ĺ	saturated zone	İ	saturated zone	İ	saturated zone	İ
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
B207A:							!
Pelan	l l 70	  Not limited		  Not limited		  Not limited	1
101411	/0		i		i		i
Chilgren	10	Very limited:	į	Very limited:	İ	Very limited:	į
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	ļ	saturated zone	:	saturated zone	•	saturated zone	1
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Garnes	l l 10	  Not limited		  Not limited	1	  Not limited	1
	i		i		i		i
Eckvoll	5	Not limited	İ	Not limited	İ	Not limited	İ
	_		!		ļ		!
Grygla	5	Very limited:   Depth to	:	Very limited:   Depth to	!	Very limited:   Depth to	1
		saturated zone	:	saturated zone	!	saturated zone	1
	i	!	:	1	1.00	•	1.00
	į	Too sandy	0.12	Too sandy	0.12		i
	ļ	!	İ	!	!	!	İ
B208A:	75	 		 		  Town limited	!
Grygla	/5 			Very limited:   Depth to		Very limited:   Depth to	1
	i	saturated zone	:	saturated zone		saturated zone	
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Too sandy	0.12	Too sandy	0.12	!	1
Chil		 		 		 	
Chilgren	Ι Ι το			Very limited:   Depth to	•	Very limited:   Depth to	11.00
		: - <del>-</del>	1	saturated zone	1	saturated zone	1
	İ	!	:	1	1.00	Ponding	1.00
	ļ	!	[	!	ļ	!	!
Eckvoll	5	Not limited		Not limited		Not limited	
Grygla, depressional	   5	  Very limited:	1	  Very limited:	 	  Very limited:	1
orlara, debressionar		! -	:	Depth to	:	Ponding	1
	i	saturated zone	:	saturated zone	:	Depth to	11.00
	i	!	:	Ponding	1.00	! -	i
		Too sandy	0.12	Too sandy	0.12		1
	   	!	:		:	!	

Table 18b.--Recreation--Continued

component name	Pct. of		s	Off-road motorcycle trai	ls	Golf fairways   	\$
	unit			<u> </u>		<u> </u>	
		Rating class and limiting features		Rating class and limiting features	•	Rating class and limiting features	
B208A:	l i	 	 	 		 	
Northwood	5	  Very limited:	i	  Very limited:	i	  Very limited:	i
į		Depth to	1.00	Depth to	1.00	Ponding	1.00
		saturated zone Ponding	  1.00	saturated zone Ponding	1.00	Depth to saturated zone	1.00
į							į
B209A:     Seelyeville	90	  Verv limited:	l I	  Very limited:	 	  Very limited:	l I
			1.00		1.00		1.00
j	İ	saturated zone	j	saturated zone	į	Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	
Cathro	3	  Very limited:		  Very limited:		  Very limited:	
į	İ	Depth to	1.00	Depth to	1.00	Ponding	1.00
I		saturated zone		saturated zone		Content of	1.00
!			1.00	1	1.00	!	
		organic matter Ponding	  1.00	organic matter Ponding	  1.00	Depth to saturated zone	1.00
į			į		į	į	į
Dora	3	Very limited:	11.00	Very limited:		Very limited:	
	İ	Depth to saturated zone	1	Depth to saturated zone	1.00	Ponding Content of	1.00
i			1.00		1.00	•	
i		organic matter	i	organic matter	i	Depth to	1.00
į		Ponding	1.00	Ponding	1.00	saturated zone	į
  Markey	3	  Very limited:	 	  Very limited:	 	  Very limited:	
į		Depth to	1.00	Depth to	1.00	Ponding	1.00
		saturated zone		saturated zone		Content of	1.00
		Content of	1.00	Content of	1.00	!	
 	İ	organic matter Ponding	  1.00	organic matter Ponding	1.00	Depth to saturated zone	1.00
i							i
Berner	1	Very limited:	:	Very limited:	•	Very limited:	
<u> </u>	i	_	1.00	Depth to saturated zone	1.00	!	11.00
	İ	saturated zone Content of	1		1	Content of organic matter	1.00
i		organic matter		organic matter		Depth to	1.00
į			1.00	!	1.00	saturated zone	
B210A:	 	 	 	 	 	 	
Eckvoll	70	Not limited	į	Not limited	į	Not limited	į
Chilgren	12	  Very limited:	 	  Very limited:	 	  Very limited:	
i		Depth to	1.00	Depth to	1.00		1.00
		saturated zone		saturated zone		saturated zone	
ļ	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Grygla	8	  Very limited:		  Very limited:		  Very limited:	
İ		Depth to	1.00		1.00	Depth to	1.00
!		saturated zone		saturated zone		saturated zone	
		Ponding Too sandy	1.00  0.12		1.00  0.12		1.00
į	_	i	į		į	į	į
Garnes	7	Not limited	I	Not limited	1	Not limited	1
Gaines			İ	İ	İ	İ	1

Table 18b.--Recreation--Continued

component name	Pct. of map	 	s	Off-road motorcycle trai	ls	   Golf fairways 	
	unit   	'	Value	   Rating class and   limiting features		   Rating class and   limiting features	Value
	i	 		 	i		
B211A:			ļ		!	]	ļ
Berner, ponded	45 	! -	:	Very limited:   Depth to	:	Very limited:	1 00
	l I	Depth to saturated zone	1.00	saturated zone	1.00	Ponding Content of	1.00
	i	Content of	1.00	!	1.00	organic matter	
	i	organic matter	i	organic matter	i	Depth to	1.00
	ļ	Ponding	1.00	Ponding	1.00	saturated zone	
Cathro, ponded	   4E	 		  Very limited:		  Very limited:	
cacino, ponded	45	Depth to	1	! -	1	!	1 1.00
	i	saturated zone		saturated zone		Content of	11.00
	j	Content of	1.00	Content of	1.00	organic matter	İ
		organic matter		organic matter		Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	
Chilgren	   2	  Very limited:		  Very limited:		  Very limited:	
0	i -	Depth to	1.00	! -	1.00	! -	1.00
	j	saturated zone	j	saturated zone	į	saturated zone	İ
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Grygla		  Very limited:		  Very limited:		  Very limited:	
GIYGIA	-	Depth to	1	! -	1	!	11.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	ĺ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Too sandy	0.12	Too sandy	0.12		
Hamre	   2	  Very limited:	 	  Very limited:		  Very limited:	
	i	Depth to	1.00	! -	1.00	!	1.00
		saturated zone		saturated zone		Content of	1.00
	ļ	Content of	1.00	!	1.00	organic matter	
	 	organic matter Ponding	  1.00	organic matter Ponding	1.00	Depth to saturated zone	1.00
	i						i
Northwood	2	Very limited:		Very limited:		Very limited:	
	ļ	Depth to	1.00	! -	1.00	!	1.00
	l I	saturated zone Ponding	11.00	saturated zone Ponding	1.00	Depth to saturated zone	1.00
		Foliating	1	Foliating	1	Sacuraced Zone	
Seelyeville, ponded	2	Very limited:	İ	Very limited:	į	Very limited:	İ
		! -	1.00	! -	1.00		1.00
		saturated zone	11 00	saturated zone	11 00	Depth to	1.00
	 	Ponding 	1.00 	Ponding 	1.00 	saturated zone	
I1A:	İ	İ	İ	İ	İ	İ	į
Augsburg	75	! -	•	Very limited:	:	Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1	!	1		1.00
	į	j	İ	j	į	İ	İ
Borup	10	! -	1	Very limited:	:	Very limited:	
		Depth to	1.00	! -	1.00	! -	1.00
	l I	saturated zone Ponding	1.00	saturated zone Ponding	11.00	saturated zone Ponding	11.00
	i						
Foxlake	5	Very limited:	1	Very limited:	:	Very limited:	
		Depth to	1.00	! -	1.00	<u> </u>	1.00
	l I	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00
	1	Longing	1 00	Longing	1	1 Tonaring	1

Table 18b.--Recreation--Continued

Map symbol and component name	Pct. of map	 	s	Off-road   motorcycle trai	ls	Golf fairways   	ı
	unit   	'	•	Rating class and   limiting features		Rating class and   limiting features	
IIA: Augsburg, depressional	       3   	Depth to saturated zone	1.00	saturated zone	1.00	Very limited: Ponding Depth to saturated zone	      1.00  1.00
Wheatville	   3 		    0.78 			  Somewhat limited:   Depth to   saturated zone	    0.90
Glyndon	   2   	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	•	  Very limited:   Depth to   saturated zone	    1.00 
Espelie	   1   	saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hattie	   1     	! -	    1.00   	! -	    1.00   	  Very limited:   Too clayey   Depth to   saturated zone	  1.00  0.10 
I3A: Berner	   80       	  Not rated         	           	  Not rated         	           	  Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00    1.00
Northwood	   7   	  Not rated     	       	  Not rated     	       	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Kratka	   5   	  Very limited:   Depth to   saturated zone   Ponding	•	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hamre	   3       	  Not rated       	         	  Not rated         	         	Very limited:	  1.00  1.00    1.00
Strathcona	3	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Seelyeville	   2     	  Not rated       	         	  Not rated       	         	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00 

Table 18b.--Recreation--Continued

component name	Pct. of map unit	f		Off-road   motorcycle trai 	ls	Golf fairways     	
	unite   		Value	Rating class and   limiting features		Rating class and   limiting features	Value
I4A: Berner	     30       	  Not rated  -      - 	           	  Not rated         	           	  Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	    1.00  1.00    1.00
Rosewood, depressional	     30     	Depth to saturated zone	      1.00    1.00	saturated zone	      1.00    1.00	Depth to	    1.00  1.00
Strathcona, depressional	   30     	Depth to saturated zone		  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	Depth to	    1.00  1.00
Rosewood	   4     	saturated zone	  1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Deerwood	   2   	  Not rated   	       	  Not rated   	       	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Mavie	   2     	saturated zone	  1.00    1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding   Droughty	  1.00    1.00  0.01
Strathcona	   2     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
I5A:	! 	! [	i	! [	i	! [	i
Borup	75       	Depth to saturated zone	1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Glyndon	   9   		    1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	1.00
Rosewood	   8     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Augsburg	   5     	saturated zone	    1.00    1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18b.--Recreation--Continued

Map symbol and component name	Pct. of map	 	s	Off-road motorcycle trai	ls	   Golf fairways   	ı
	unit   	'	Value	   Rating class and   limiting features		   Rating class and   limiting features	Value
I5A: Augsburg, depressional	       3     	saturated zone	        1.00	saturated zone	        1.00    1.00	Depth to	        1.00  1.00
I7A: Bowstring	   45           	  Not rated         	             	  Not rated         	             	Very limited:   Ponding   Flooding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00  1.00    1.00
Fluvaquents	   45       	Depth to   saturated zone   Ponding	  1.00    1.00  0.60	saturated zone Ponding	  1.00    1.00  0.60	Flooding   Depth to	  1.00  1.00  1.00
Hapludolls	   5 	  Not limited 	   	  Not limited 	   	  Somewhat limited:   Slope	0.63
Water	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	   
I8A: Cathro	   80       	  Not rated         	 	  Not rated         	 	Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00    1.00
Hamre	   8       	  Not rated         	           	  Not rated       	           	  Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00      1.00
Northwood	   3     	  Not rated     	       	  Not rated     	       	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Roliss	   3     	saturated zone	    1.00    1.00	saturated zone	 	saturated zone	  1.00    1.00
Berner	   2         	  Not rated           	             	  Not rated           	             	Very limited: Ponding Content of organic matter Depth to saturated zone	  1.00  1.00    1.00

Table 18b.--Recreation--Continued

component name	Pct. of map	į	s	Off-road motorcycle trai	ls	   Golf fairways   	1
	unit   	'	•	Rating class and   limiting features		   Rating class and   limiting features	Value
							1
I8A:			!		ļ		ļ
Kratka	2 	Very limited:   Depth to	11.00	Very limited:   Depth to	1.00	Very limited:   Depth to	11.00
	! 	saturated zone	1	saturated zone	1	saturated zone	1
	į	!	1.00	Ponding	1.00	•	1.00
		 	ļ	 	ļ		ļ
Seelyeville	2 	Not rated 		Not rated	l I	Very limited:   Ponding	11.00
	<u> </u>	! 	i	 	i	Depth to	1.00
	į	İ	į	İ	İ	saturated zone	į
T03							
I9A: Clearwater	l I 80	  Verv limited:		  Very limited:	 	  Very limited:	
CICUI WUCCI		! -	:		1.00	!	1.00
	į	saturated zone	į	saturated zone	j	saturated zone	İ
	!		1.00	!	1.00		1.00
	 	Ponding	1.00	Ponding	1.00	Ponding	11.00
Clearwater, very	 	 		 	i i	 	1
cobbly	5	  Very limited:	i	  Very limited:	İ	  Very limited:	i
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
	!	saturated zone		saturated zone		saturated zone	
	 		1.00		1.00  1.00		1.00
	 		1		1		1
Reis	5	  Very limited:	i	Very limited:	i	  Very limited:	i
		! -	1.00	! -	1.00	! -	1.00
		saturated zone		saturated zone		saturated zone	
	l I	Too clayey 	1.00 	Too clayey	1.00 	Too clayey 	1.00
Clearwater,	İ	İ	i		i	İ	i
depressional	3	Very limited:	:	Very limited:		Very limited:	!
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Ponding Depth to	1.00
	 	!	1	!	11.00		1.00
	i						i
Espelie	3	Very limited:	:	Very limited:		Very limited:	1
		Depth to saturated zone	1.00	! -	1.00	Depth to saturated zone	1.00
	l I		1 1.00	saturated zone Ponding	1.00		1
	İ	İ	i		İ		i
Foxlake	2			Very limited:		Very limited:	1
		Depth to saturated zone	1.00		1.00		1.00
	l I		1.00	saturated zone Ponding	1.00	saturated zone Ponding	1
	i						
Hattie	1	Very limited:	:	Very limited:	:	Very limited:	
		Too clayey	1.00	Too clayey	1.00		1.00
	 	 		 	 	Depth to saturated zone	0.10
	İ	İ	i	į	İ		i
Huot	1	Not limited	ļ	Not limited	!	Not limited	ļ
T115							
I11A: Deerwood	l I 85	  Not rated	 	  Not rated	 	  Very limited:	1
		1	1	1	1	•	1.00
	l		1		1	Ponding	1 - 0 0
	 	 		 		Depth to	1.00

Table 18b.--Recreation--Continued

component name	Pct. of map	 	s	Off-road motorcycle trai	ls	Golf fairways     		
	unit   	'	-	   Rating class and   limiting features	-	Rating class and limiting features	Value	
I11A: Rosewood	     6 	saturated zone	•	saturated zone	      1.00    1.00	saturated zone	      1.00	
Markey	   3   1   	Ponding    Not rated     	į	Ponding    Not rated     	į	Ponding	1.00    1.00  1.00    1.00	
Strathcona	   2   	saturated zone	!	saturated zone		  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	
Syrene	   2       	  Very limited:   Depth to   saturated zone	i i	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone   Ponding   Droughty	    1.00    1.00  0.30	
Venlo	   2       	saturated zone	    1.00    1.00 	saturated zone	:	  Very limited:   Ponding   Depth to   saturated zone   Droughty	  1.00  1.00    0.01	
I12A: Eckvoll	     70 		    0.31	  Somewhat limited:   Too sandy	0.31	    Not limited 	 	
Kratka	   8     	saturated zone	    1.00    1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	
Smiley	   7   	saturated zone	1.00	saturated zone	1.00	saturated zone	  1.00    1.00	
Linveldt	   5	  Not limited	 	  Not limited		  Not limited		
Reiner	   5 	  Not limited 	   	  Not limited 	   	  Not limited 		
Foldahl	   2 	  Somewhat limited:   Too sandy 	    0.31 	  Somewhat limited:   Too sandy 	    0.31	  Not limited   	     	
Pelan	   2 	  Not limited 	   	  Not limited 		  Not limited 		
Poppleton	   1 	:	    1.00	  Very limited:   Too sandy 	1.00	  Somewhat limited:   Droughty 	    0.09	

Table 18b.--Recreation--Continued

component name	  Pct.   of  map		s	   Off-road   motorcycle trai	ls	   Golf fairways 	
	unit	 		 		 	
	 	Rating class and limiting features	•	Rating class and limiting features	•	Rating class and limiting features	Value
							I
I13A:		 		 		 	
Espelie	/5 	! =	  1.00	Very limited:   Depth to	1	Very limited:   Depth to	1
	i	saturated zone		saturated zone		saturated zone	
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Foxlake	   8	  Very limited:	 	  Very limited:	 	  Very limited:	
TORIGING	İ		1.00	! =	1.00	!	1.00
	İ	saturated zone	į	saturated zone	į	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Hilaire	l l 7	  Not limited	 	  Not limited	 	  Somewhat limited:	
	i		i		i	Droughty	0.01
	ļ						ļ
Clearwater, depressional	   5	  Very limited:	 	  Very limited:	 	  Very limited:	
depressionar		! =	1	! =	1	!	1.00
	İ	saturated zone	į	saturated zone	į	Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	
Thiefriver	l I 5	  Very limited:	 	  Very limited:	 	  Very limited:	
	į		1.00	! -	1.00	!	1.00
	ļ	saturated zone		saturated zone		saturated zone	ļ
		Ponding	1.00 	Ponding	1.00	Ponding 	1.00
I15A:	i		i				i
Flaming	70		:	Somewhat limited:	:	Somewhat limited:	ļ.
		Too sandy	0.31	Too sandy	0.31	Droughty	0.15
Garborg	1 10	  Somewhat limited:	 	  Somewhat limited:	 	  Somewhat limited:	¦
	ĺ	Depth to	0.50	Depth to	0.50	Depth to	0.78
		saturated zone		saturated zone		saturated zone	
		Too sandy	0.31 	Too sandy	0.31 	Droughty 	0.02 
Hamar	5	Very limited:	i	Very limited:	i	  Very limited:	i
	ļ	! -	1.00	! -	1.00	<u> </u>	1.00
	 	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00	saturated zone	1.00
	i	!	0.31	!	0.31	!	0.21
	į	į	į	į	į	İ	į
Ulen	5 	Not limited		Not limited		Somewhat limited:	  0.22
		 	i	 	i i	Depth to saturated zone	0.22
	İ	j	i	j	į		i
Poppleton						Somewhat limited:	
		Too sandy	1.00	Too sandy	1.00	Droughty	0.09
Sandberg	3	Somewhat limited:	! 	Somewhat limited:	! 	  Somewhat limited:	i
	İ	Too sandy	0.30	Too sandy	-		0.85
						Gravel content	0.01
Foldahl	   2	  Somewhat limited:	 	  Somewhat limited:	 	  Not limited	
	į	•		Too sandy		•	İ
D = 11		 		 		lamente at the s	
Radium	2 	Somewhat limited:   Too sandy		Somewhat limited:   Too sandy		Somewhat limited:   Droughty	  0.76
	i		İ		İ		İ

Table 18b.--Recreation--Continued

	Pct. of	Paths and trail	s	Off-road motorcycle trai	ls	Golf fairways	:
	map  unit	 		l I		l I	
	   	'		Rating class and   limiting features	Value	Rating class and   limiting features	Value
	ļ	<u> </u>		<u> </u>	!		!
I16F: Fluvaquents	   55 	Depth to	    1.00	!	1.00	!	1.00
	   	!	  1.00  0.60	!	1.00	· -	1.00  1.00 
Hapludolls	   25 	  Not limited 	 	  Not limited 	   	  Somewhat limited:   Slope	0.63
Hapludalfs	   7 	  Very limited:   Slope	    1.00	  Somewhat limited:   Slope	0.44	  Very limited:   Slope	    1.00
Fairdale	   5   	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Flooding   Slope	  0.60  0.37
Water	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	   
Bowstring	2           	Not rated	           	Not rated    -  -  -  -	           	Very limited:   Ponding   Flooding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00  1.00      1.00
Rauville	   1     	saturated zone Ponding	  1.00    1.00  0.60	saturated zone Ponding	  1.00    1.00  0.60	Flooding	  1.00  1.00  1.00
I17A: Foldahl	     75	    Not limited		    Not limited	 	    Not limited	
Kratka	   10     	Depth to saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Roliss	   5     	Depth to saturated zone	    1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Flaming	   4 	  Somewhat limited:   Too sandy	    0.31	  Somewhat limited:   Too sandy	0.31	  Somewhat limited:   Droughty	0.15
Grimstad	   2   	  Somewhat limited:   Depth to   saturated zone	    0.50 	  Somewhat limited:   Depth to   saturated zone	    0.50 	  Somewhat limited:   Depth to   saturated zone	    0.78 
Linveldt	   2 	  Not limited 	   	  Not limited 	   	  Not limited 	   
Eckvoll	   1 	Somewhat limited:   Too sandy	0.31	Somewhat limited:   Too sandy	0.31	Not limited 	<u> </u> 

Table 18b.--Recreation--Continued

component name	Pct. of map	 	Off-road   motorcycle trai	ls	   Golf fairways   	3	
	unit   	Rating class and		   Rating class and   limiting features			
I17A: Strathcona	     1   	Depth to saturated zone	1.00	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
I18A: Foldahl	     75 	•		    Somewhat limited:   Too sandy		•	     
Kratka	i I	Depth to saturated zone	1.00	Depth to saturated zone	1.00	saturated zone	  1.00    1.00
Roliss	:	Depth to saturated zone	1.00	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Flaming	   4 			  Somewhat limited:   Too sandy			    0.15
Grimstad	   2 	•	0.50	  Somewhat limited:   Depth to   saturated zone	0.50	•	    0.78 
Linveldt	2	  Not limited	 	  Not limited	 	  Not limited	
Eckvoll	   1 			•	    0.31	•	
Strathcona	i I	Depth to saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I19A: Foxhome		    Not limited		    Not limited		    Not limited	į
Kittson	i	İ	İ	Not limited    Not limited	İ	Not limited    Not limited	
Strandquist	   10     	Depth to saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Foldahl	   5	  Not limited		  Not limited		  Not limited	
Grimstad	   5   	  Somewhat limited:   Depth to   saturated zone	    0.50 	  Somewhat limited:   Depth to   saturated zone	    0.50 	  Somewhat limited:   Depth to   saturated zone	    0.78 
Roliss	   3     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00

Table 18b.--Recreation--Continued

component name	Pct. of map unit	 	s	Off-road   motorcycle trai 	   Golf fairways     	3	
	   			Rating class and   limiting features			Value
I19A: Mavie	   2   1 	saturated zone	:	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding   Droughty	    1.00    1.00  0.01
I20A: Foxlake	     75   	Depth to saturated zone	    1.00    1.00	saturated zone	1	Very limited: Depth to saturated zone Ponding	    1.00    1.00
Clearwater	   5       	saturated zone Too clayey	1.00		1.00	  Very limited:   Depth to   saturated zone   Too clayey   Ponding	  1.00    1.00  1.00
Foxlake, very cobbly	   5     	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Augsburg	   3   	Depth to saturated zone	1.00	Depth to saturated zone	1	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Clearwater, depressional	   3     	  Very limited:   Depth to   saturated zone   Ponding	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	Depth to	    1.00  1.00
Espelie	   3   	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hilaire	   2 	  Not limited 	   	  Not limited 	   	  Somewhat limited:   Droughty	0.01
Reis	   2   	saturated zone		  Very limited:   Depth to   saturated zone   Too clayey	1.00	  Very limited:   Depth to   saturated zone   Too clayey	  1.00    1.00
Wheatville	   2   	  Somewhat limited:   Depth to   saturated zone	    0.78   	  Somewhat limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	    0.90 
I22A: Glyndon	   75   	! -	    1.00	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	    1.00
Borup	   10       	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone		  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18b.--Recreation--Continued

component name	  Pct.   of  map	   Paths and trail   	s	   Off-road   motorcycle trai 	ls	   Golf fairways   	
	unit	İ		<u>İ</u>		<u> </u>	
			Value	Rating class and	Value		Value
	L	limiting features	l	limiting features		limiting features	<del>                                     </del>
I22A: Augsburg	     5 	    Very limited:   Depth to	      1.00	    Very limited:   Depth to	      1.00	    Very limited:   Depth to	      1.00
	   	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00	saturated zone Ponding	1.00
Ulen	   5   	  Not limited   	   	  Not limited   	   	Somewhat limited:   Depth to   saturated zone	0.22
Wheatville	   3   	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.90 
Flaming	   2   	  Somewhat limited:   Too sandy 	    0.31 	  Somewhat limited:   Too sandy 	    0.31 	  Somewhat limited:   Droughty 	    0.15
I24A: Grimstad	   70   	!	    0.50	  Somewhat limited:   Depth to   saturated zone	    0.50	  Somewhat limited:   Depth to   saturated zone	    0.78 
Strathcona	   12     	Depth to saturated zone	  1.00    1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Foldahl	     5	  Not limited	į	  Not limited	į	    Not limited	 
Hamerly	   5     	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.90 
Foxhome	   2 	  Not limited 	   	  Not limited 	   	  Not limited 	<u> </u> 
Karlsruhe	2   	Not limited    - 	     	Not limited    - 	     	Somewhat limited:   Depth to   saturated zone	  0.22 
Mavie	2       	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	Very limited:   Depth to   saturated zone   Ponding   Droughty	  1.00    1.00  0.01
Ulen	   2   	  Not limited     	       	  Not limited     	       	  Somewhat limited:   Depth to   saturated zone	0.22
I25A:	į	į	i	į	i	į	i
Hamar	75   	Depth to saturated zone	1.00	saturated zone	1.00	saturated zone	  1.00 
	   	-	1.00  0.31 		1.00  0.31 	· -	1.00  0.21 
Garborg	10         	Depth to saturated zone	  0.50    0.31	saturated zone	  0.50    0.31	Somewhat limited:   Depth to   saturated zone   Droughty	  0.78    0.02

Table 18b.--Recreation--Continued

component name	Pct. of map	Paths and trail	s	Off-road motorcycle trai	ls	   Golf fairways   	•
	unit			   Rating class and   limiting features		   Rating class and   limiting features	Value
	i						
I25A: Rosewood	   7	  Very limited:	:	  Very limited:		  Very limited:	
	   	saturated zone	1.00    1.00	saturated zone	1.00    1.00	Depth to   saturated zone   Ponding	1.00    1.00
Venlo	   3	    Very limited:	j I	    Very limited:	j I	    Very limited:	į I
	i I	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Ponding Depth to	1.00
	;   	Ponding	1.00	!	1.00	saturated zone Droughty	0.01
Flaming	   2	  Somewhat limited:	:	  Somewhat limited:	!	  Somewhat limited:	
	 	Too sandy	0.31	į	0.31		0.15
Hangaard	2   	Very limited:   Depth to   saturated zone	1.00	saturated zone	1.00	saturated zone	  1.00 
	   	Ponding   	1.00	Ponding   	1.00	Ponding   Droughty 	1.00
Kratka	   1 	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	,	  Very limited:   Depth to   saturated zone	1.00
	   	1	1.00		1.00	Ponding	1.00
I26A:	i		<u> </u>	İ	i		<u> </u>
Hamerly	75   	Somewhat limited:   Depth to   saturated zone	  0.78 	Somewhat limited:   Depth to   saturated zone	  0.78 	Somewhat limited:   Depth to   saturated zone	  0.90 
Vallers	   12 	Depth to	    1.00	! -	1   1.00	!	1
	 	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
Foxhome	   3 	  Not limited 	   	  Not limited 	   	  Not limited	   
Grimstad	   3   	Somewhat limited:   Depth to   saturated zone	    0.50 	Somewhat limited:   Depth to   saturated zone		Somewhat limited:   Depth to   saturated zone	0.78
Hamerly, very cobbly	   3 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.90 
Strathcona	   3 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
	 	!	1.00	Ponding	1.00	Ponding	1.00
Roliss, depressional	,   1 	  Very limited:   Depth to   saturated zone	1 1.00	  Very limited:   Depth to   saturated zone	1 1.00	  Very limited:   Ponding   Depth to	  1.00  1.00
	   	Sacurated Zone   Ponding	1.00	Saturated Zone   Ponding	11.00	bepth to   saturated zone	

Table 18b.--Recreation--Continued

component name	Pct. of map unit	 	s	Off-road   motorcycle trai 	ls	Golf fairways   	•
	unit   	'		Rating class and   limiting features	Value	Rating class and   limiting features	Value
I27A: Hamre	   80         	  Not rated         	           	  Not rated         	           	  Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	    1.00  1.00    1.00
Northwood	   5   	  Not rated     	       	  Not rated     	       	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00
Roliss	   5   	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Smiley	   5     	saturated zone	:	saturated zone	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Cathro	   3       	  Not rated     	         	  Not rated     	         	Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00    1.00
Kratka	   2     	saturated zone	1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I32A: Hilaire	     75	    Not limited		    Not limited		    Not limited	
Espelie	   12     		  1.00    1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Huot	   5	  Not limited		  Not limited		  Not limited	
Flaming	   2 	  Somewhat limited:   Too sandy	0.31	  Somewhat limited:   Too sandy	0.31	  Somewhat limited:   Droughty	0.15
Foxlake	   2   	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Wheatville	   2   	  Somewhat limited:   Depth to   saturated zone	  0.78	  Somewhat limited:   Depth to   saturated zone	  0.78	  Somewhat limited:   Depth to   saturated zone	    0.90
Thiefriver	   1     	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18b.--Recreation--Continued

component name	  Pct.   of  map  unit		   Off-road   motorcycle trai 	ls	Golf fairways		
	unit   		!	Rating class and   limiting features		Rating class and limiting features	•
I32A: Wyandotte	   1   1   	Depth to saturated zone	•	Very limited:   Depth to   saturated zone   Ponding	:	    Very limited:   Depth to   saturated zone   Ponding	      1.00    1.00
I34A: Huot	     75	    Not limited	   	    Not limited	   	    Not limited	į
Thiefriver	   12     	Depth to saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	:	  Very limited:   Depth to   saturated zone   Ponding	1.00
Hilaire	   5 	  Not limited 	   	  Not limited 	   	  Not limited 	   
Flaming	   3 	Somewhat limited:   Too sandy	    0.31	Somewhat limited:   Too sandy	:	Somewhat limited:   Droughty	0.15
Foxlake	   3   	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00
Ulen	   2   	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.22 
I36A: Kittson	     70	    Not limited	   	    Not limited	   	    Not limited	
Roliss	   12     	Depth to saturated zone	 	saturated zone	 	saturated zone	  1.00    1.00
Hamerly	   5   	  Somewhat limited:   Depth to   saturated zone	!	  Somewhat limited:   Depth to   saturated zone	:	  Somewhat limited:   Depth to   saturated zone	    0.90 
Kratka	   5   	saturated zone	    1.00    1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Grimstad	   3 	  Somewhat limited:   Depth to   saturated zone	    0.50	Somewhat limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	
Strandquist	   3   	  Very limited:   Depth to   saturated zone   Ponding	•	  Very limited:   Depth to   saturated zone   Ponding		  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Foxhome	   2	  Not limited	 	  Not limited	 	  Not limited	
I38A: Kratka	   70   70     	! -	      1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	      1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00

Table 18b.--Recreation--Continued

component name	  Pct.   of  map		s	   Off-road   motorcycle trai 	ls	   Golf fairways   	
	unit	!		<u> </u>		<u> </u>	
		Rating class and	Value	Rating class and	Value	Rating class and	Value
	L	limiting features		limiting features		limiting features	
		1	ļ		!		!
I38A: Smiley	   7	  Very limited:	!	  Very limited:	l i	  Very limited:	-
DMITE	' '	•	•			Depth to	11.00
	İ	saturated zone	•	saturated zone	!	saturated zone	i
	ĺ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Foldahl	   5	  Not limited	 	  Not limited		  Not limited	
Kratka, very cobbly	   5	  Verv limited:	 	  Very limited:	l I	  Very limited:	 
,,,	i	• -	•	! =	:	Depth to	1.00
	į	saturated zone		saturated zone	1	saturated zone	İ
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Strathcona	   5	  Verv limited:	 	  Very limited:	l I	  Very limited:	l I
	i	• -	•			Depth to	1.00
	ĺ	saturated zone	Ì	saturated zone	Ì	saturated zone	Ì
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Kratka, depressional	l   3	  Verv limited:		  Very limited:	i i	  Very limited:	1
,	i		:	! =	:	Ponding	1.00
	İ	saturated zone	İ	saturated zone	İ	Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	
Strandquist	l I 3	  Verv limited:	 	  Very limited:	 	  Very limited:	 
	i	•		•		Depth to	1.00
	ĺ	saturated zone	Ì	saturated zone	Ì	saturated zone	Ì
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Linveldt	   2 	  Not limited 	   	  Not limited 	   	  Not limited 	
I39A:	! 	 	ŀ	! [	i	! [	i
Linveldt	65	Not limited	į	Not limited	İ	Not limited	İ
			ļ		ļ		ļ
Kratka	14	•		Very limited:   Depth to		Very limited:   Depth to	1.00
	l I	saturated zone	:	saturated zone	1	saturated zone	1
	<u> </u>	!	!		1.00	Ponding	1.00
Reiner	   10	Not limited	Ì	  Not limited	İ	    Not limited	İ
Keillei	10	 					
Smiley	5	Very limited:		Very limited:		Very limited:	
	!		1.00	:	1.00	:	1.00
	 	saturated zone Ponding	•	saturated zone Ponding	1.00	saturated zone Ponding	1.00
	<u> </u>			Foliating		ronding	
Eckvoll	3			Somewhat limited:		Not limited	į
	 	Too sandy	0.31	Too sandy	0.31 	 	
Foldahl	   2	  Not limited		  Not limited		  Not limited	
Pelan	   1	  Not limited		  Not limited		  Not limited	
T413.		 					
I41A: Markey	I   80	  Not rated		  Not rated	 	  Very limited:	
			i		i	Ponding	1.00
	İ	İ	İ	İ	İ	Content of	1.00
		]	[	!		organic matter	
			!		ļ	Depth to	1.00
				i .	i	saturated zone	

Table 18b.--Recreation--Continued

	Pct. of map	į	s	Off-road motorcycle trai	ls	   Golf fairways   	1
	unit	!		İ		İ	
	 	Rating class and limiting features		Rating class and limiting features	Value 	Rating class and limiting features	
	ļ		ļ		ļ		
I41A: Deerwood	   12   	  Not rated   	     	  Not rated   	     	  Very limited:   Ponding   Depth to	    1.00
	   	 	   	 	   	saturated zone	
Berner	2 	  Not rated   	   	Not rated   	 	Very limited:   Ponding   Content of	  1.00  1.00
	;   	 	;     	 	;   	organic matter Depth to saturated zone	  1.00 
Hamar	   2	  Very limited:	 	  Very limited:	 	  Very limited:	
namar	-	! -	1.00		1.00	! -	1.00
		saturated zone	ļ	saturated zone	[	saturated zone	
	ļ	· -	1.00	-	1.00	!	1.00
	 	Too sandy	0.31	Too sandy	0.31	Droughty	0.21
Seelyeville	2	  Not rated	İ	Not rated	i	  Very limited:	i
				[		Ponding	1.00
	 	 		 		Depth to saturated zone	1.00
Syrene	   2	  Very limited:	l I	  Very limited:		  Very limited:	
_	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding 	1.00 	Ponding	1.00 	Ponding Droughty	1.00
	į	į	į	į	į	į	į
I42A: Markey, ponded	   85	  Not rated	 	  Not rated		  Very limited:	
narno, ponaca			i		i	Ponding	1.00
	į	İ	İ	İ	į	Content of	1.00
		[			[	organic matter	ļ
	 	 	 	 		Depth to saturated zone	1.00
		 		İ	i		i
Markey	5	Not rated	ļ	Not rated	!	Very limited:	
					!	Ponding	1.00
	 	 		 	1	Content of organic matter	1
	İ	İ	İ	İ	į	Depth to	1.00
						saturated zone	
Deerwood	l   4	  Not rated	 	  Not rated		  Very limited:	
	į	İ	i	İ	i	Ponding	1.00
		ļ	ļ	ļ.	ļ.	Depth to	1.00
	 	 	l I	 	 	saturated zone	 
Seelyeville, ponded	4	Not rated	į	Not rated	į	Very limited:	į
		!		ļ.	!	Ponding	1.00
	 	 	 	 	 	Depth to saturated zone	1.00
			ļ		ļ		ļ
Hamar	1 	Very limited:   Depth to	  1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	11.00
	I I	Depth to   saturated zone	1 - 00	saturated zone	1 - 00	Depth to   saturated zone	1
	i	!	1.00		1.00	!	1.00
	İ	:	0.31		0.31	Droughty	0.21
	   	:	:		:		:

Table 18b.--Recreation--Continued

component name	Pct. of map	į	s	   Off-road   motorcycle trai 	ls	   Golf fairways   	
	unit	!					
	İ 		•	Rating class and limiting features			
I42A: Hangaard	     1 	saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone	
	   	Ponding   	1.00   	Ponding   	1.00   	Ponding   Droughty 	1.00  0.92 
I43A:							
Mavie	70     	Depth to saturated zone	1.00	saturated zone	1.00	Very limited:   Depth to   saturated zone   Ponding	1.00
Vallers	     10	    Very limited:	   	    Very limited:	   	Droughty    Very limited:	0.01   
	   	saturated zone	į	saturated zone	į	Depth to   saturated zone   Ponding	1.00    1.00
Strandquist	   7   		1.00		1.00	  Very limited:   Depth to   saturated zone	    1.00
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Strathcona	   5     	Depth to saturated zone	1.00	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strathcona, depressional	     3   	Depth to saturated zone	1.00	Depth to saturated zone	1.00	  Very limited:   Ponding   Depth to   saturated zone	      1.00  1.00
Foxhome	   2 	  Not limited 	   	  Not limited 	   	  Not limited 	   
Karlsruhe	2     	  Not limited     	 	  Not limited     	;     	Somewhat limited:   Depth to   saturated zone	0.22
Grimstad	   1   	  Somewhat limited:   Depth to   saturated zone	  0.50 	  Somewhat limited:   Depth to   saturated zone	    0.50 	  Somewhat limited:   Depth to   saturated zone	0.78
I44A: Newfolden	     75	    Not limited 		    Not limited 	     	    Not limited 	   
Smiley	   12     	Depth to saturated zone	1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Boash	   8   	saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Linveldt	   4 	  Not limited 	   	  Not limited 	   	  Not limited 	   

Table 18b.--Recreation--Continued

component name	Pct. of map	 	s	Off-road motorcycle trai	ls	   Golf fairways   	3
	unit   	'	Value	   Rating class and   limiting features		   Rating class and   limiting features	Value
I44A: Hapludolls	     1 	    Not limited 	     	    Not limited 	     	    Somewhat limited:   Slope	      0.63
I45A: Northwood	     75     	    Not rated     	       	    Not rated     	       	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00
Hamre	   10         	  Not rated       	         	  Not rated       	         	Very limited: Ponding   Content of organic matter   Depth to   saturated zone	  1.00  1.00    1.00
Berner	   5       	  Not rated       	         	  Not rated       	         	Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00    1.00
Kratka	   5     	Depth to saturated zone	    1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Strandquist	   3     	Depth to saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Roliss	   2     	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
146A:		 	i	İ			i
Pits	85	Not rated		Not rated		Not rated	
Udipsamments	   10     	Too sandy	  1.00  1.00	  Very limited:   Too sandy   Slope 	  1.00  0.01	  Very limited:   Slope   Droughty   Too sandy	  1.00  0.57  0.50
Radium	   2 	  Somewhat limited:   Too sandy	    0.36	  Somewhat limited:   Too sandy	0.36	  Somewhat limited:   Droughty	    0.76
Maddock	   1 	  Somewhat limited:   Too sandy 	0.31	  Somewhat limited:   Too sandy 	0.31	  Somewhat limited:   Droughty 	0.27
Marquette	   1 	  Somewhat limited:   Too sandy 	    0.36	  Somewhat limited:   Too sandy 	0.36	  Somewhat limited:   Droughty 	0.85
Sandberg	   1   	  Somewhat limited:   Too sandy   	  0.30 	  Somewhat limited:   Too sandy   	  0.30 	  Somewhat limited:   Droughty   Gravel content	  0.85  0.01

Table 18b.--Recreation--Continued

component name	Pct. of map	 	s	   Off-road   motorcycle trai 	ls	   Golf fairways   	
	unit   	Rating class and	•	   Rating class and   limiting features			•
I47A: Poppleton	     75 	    Very limited:   Too sandy	      1.00			    Somewhat limited:   Droughty	      0.09
Flaming	1 12	•		Somewhat limited:   Too sandy		•	0.15
Garborg	   5   	Depth to saturated zone	0.50	Depth to saturated zone	0.50	  Somewhat limited:   Depth to   saturated zone   Droughty	  0.78    0.02
Hamar		Depth to saturated zone	1.00    1.00	saturated zone Ponding	1.00    1.00	Depth to saturated zone Ponding	  1.00    1.00  0.21
Radium	   2 	  Somewhat limited:   Too sandy		  Somewhat limited:   Too sandy		1	    0.76
Ulen	   2 	•		  Somewhat limited:   Too sandy 	1	  Somewhat limited:   Depth to   saturated zone	    0.22 
Maddock	   1   	:	:	:	1	:	    0.27
I48A: Radium	   75 	:	:	:	1	  Somewhat limited:   Droughty	    0.76
Sandberg	   7   	•		  Somewhat limited:   Too sandy 		Droughty	0.85
Oylen	   5 	  Not limited 	   	  Not limited 	   	  Somewhat limited:   Droughty	0.01
Flaming	   4 	  Somewhat limited:   Too sandy	•	  Somewhat limited:   Too sandy		  Somewhat limited:   Droughty	0.15
Garborg	3     	Somewhat limited:   Depth to   saturated zone   Too sandy	0.50	saturated zone	  0.50    0.31	saturated zone	0.78
Hangaard	   3     	   Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone		   Very limited:   Depth to   saturated zone   Ponding   Droughty	  1.00    1.00  0.92
Hamar	   2     	  Very limited:   Depth to   saturated zone   Ponding   Too sandy	  1.00    1.00  0.31	saturated zone Ponding	  1.00    1.00  0.31	saturated zone Ponding	  1.00    1.00  0.21
Poppleton	   1   	  Very limited:   Too sandy 	    1.00	  Very limited:   Too sandy 	    1.00 	  Somewhat limited:   Droughty 	    0.09

Table 18b.--Recreation--Continued

component name	Pct. of map	Paths and trail	s	Off-road motorcycle trai	ls	   Golf fairways   	3
	unit						
	 	Rating class and limiting features	:	Rating class and limiting features		Rating class and   limiting features	Value
I50A:	 	 	l I	 	l I	 	
Reiner	70	  Not limited	į	  Not limited	į	  Not limited	į
Smiley	   12	  Very limited:	 	  Very limited:	 	  Very limited:	i
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding 	1.00	Ponding 	1.00	Ponding 	1.00
Reiner, very cobbly	7	  Not limited		  Not limited		  Not limited	į
Linveldt	   5	  Not limited		  Not limited		  Not limited	
Eckvoll	   3	  Somewhat limited:	l I	  Somewhat limited:	l I	  Not limited	 
		!	0.31	!	0.31		į
Kratka	 	  Very limited:	l I	  Very limited:	l I	  Very limited:	
KI acka				Depth to	11.00		11.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	ĺ	Ponding	1.00	Ponding	1.00	Ponding	1.00
I51A:	 	[ ]	 	 	 	 	
Reiner	65	Somewhat limited:	j	Somewhat limited:	j	Not limited	İ
		Too sandy	0.31	Too sandy	0.31		
Smiley	   9	  Very limited:	 	  Very limited:	 	  Very limited:	
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	1
	 	Ponding 	1.00	Ponding 	1.00	Ponding	1.00
Reiner fine sandy	<u> </u>	 		 		İ	i
loam	8	Not limited	ļ	Not limited	ļ	Not limited	ļ
Linveldt	   7	  Not limited	 	  Not limited	 	  Not limited	
Kratka	   5	  Very limited:	 	  Very limited:	 	  Very limited:	
TE della		<u> </u>	1.00		•	Depth to	1.00
	į	saturated zone	i	saturated zone	i	saturated zone	i
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Eckvoll	   3	  Somewhat limited:	 	  Somewhat limited:	 	  Not limited	
DOMVOIT		Too sandy	0.31	!	0.31	•	i
Reiner, very cobbly	   3	  Not limited	 	  Not limited	 	  Not limited	
7503	ļ						
I52A: Reis	   55	  Very limited:	 	  Very limited:	 	  Very limited:	1
MCIB	33	• -	1		1		1 1.00
	i	saturated zone	j	saturated zone	j	saturated zone	İ
	ļ	Too clayey	1.00	Too clayey	1.00	Too clayey	1.00
Clearwater	   30	  Very limited:	 	  Very limited:	 	  Very limited:	
	İ		1.00		1.00	! -	1.00
		saturated zone		saturated zone		saturated zone	
			1.00		1.00	Too clayey	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00

Table 18b.--Recreation--Continued

component name	Pct. of	į	s	Off-road motorcycle trai	ls	Golf fairways	1
	map  unit	!		 		  -	
	   		•	Rating class and   limiting features		Rating class and   limiting features	Value
I52A: Clearwater, very	   	 	   	 	   	 	   
cobbly	5   	Very limited:   Depth to   saturated zone	1.00	saturated zone	1.00	saturated zone	11.00
	   	Too clayey   Ponding 	1.00  1.00	:	1.00  1.00	:	1.00  1.00
Clearwater,	i	İ	i	İ	i	İ	i
depressional	3   	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Ponding   Depth to	  1.00  1.00
	 	Ponding	1.00	!	1.00	<u> </u>	
Espelie	3 	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	1.00	Very limited:   Depth to   saturated zone	1.00
	   	saturated zone   Ponding	1.00		11.00		1.00
Hattie	   3   	  Very limited:   Too clayey 	1.00	  Very limited:   Too clayey 	    1.00	Depth to	  1.00  0.10
Wyandotte	     1	    Very limited:	   	    Very limited:	   	saturated zone    Very limited:	   
	   	Depth to   saturated zone   Ponding	1.00    1.00	saturated zone	1.00    1.00	saturated zone	1.00    1.00
I53A:	 	 		 	l I	 	
Roliss	   75   	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	1.00
	;   	Ponding	1.00	Ponding	1.00	Ponding	1.00
Kratka	8   	Very limited:   Depth to   saturated zone	1.00	Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	1.00
	   		1.00		1.00	!	1.00
Roliss, very cobbly	7 	Very limited:   Depth to   saturated zone	  1.00	Very limited:   Depth to   saturated zone	  1.00	  Very limited:   Depth to   saturated zone	  1.00
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Kittson	,   5 	  Not limited 	 	  Not limited 	   	  Not limited 	į į
Roliss, depressional	3 	Very limited:   Depth to	•	Very limited:   Depth to		Very limited:   Ponding	11.00
	   	saturated zone Ponding	1.00	saturated zone Ponding	1.00	Depth to saturated zone	1.00
Smiley	2	  Very limited:   Depth to	1.00	! -	1.00	<u> </u>	1.00
	 	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00

Table 18b.--Recreation--Continued

component name	Pct. of map	   Paths and trail   	s	   Off-road   motorcycle trai 	ls	   Golf fairways   	ı
	unit			<u> </u>		<u> </u>	
	 	Rating class and   limiting features	•	Rating class and   limiting features		Rating class and   limiting features	
	l		<u> </u>		<u> </u>		<del>                                     </del>
I54A:	İ		i		i	<u> </u>	i
Roliss, depressional	80	Very limited:		Very limited:		Very limited:	
	!		1.00	! · · · · · · · · · · · · · · · · · · ·	1.00	!	1.00
	 	saturated zone Ponding	11.00	saturated zone Ponding	1.00	Depth to saturated zone	1.00
	l I		1		1	saturated zone	1
Roliss	12	  Very limited:	i	  Very limited:	i	  Very limited:	i
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Hamre	l I 5	  Not rated		  Not rated		  Very limited:	1
			i		i	Ponding	1.00
	į	İ	į	İ	į	Content of	1.00
		[	[	[	[	organic matter	ļ
		1	ļ		ļ	Depth to	1.00
	 	 	!	 		saturated zone	-
Kratka	l   3	  Very limited:	ŀ	  Very limited:	ŀ	  Very limited:	i
	į		1.00	! -	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
I55A:	 	 		 		 	
Rosewood	l I 75	  Verv limited:	1	  Very limited:	1	  Very limited:	ł
			1.00	! -	1.00	!	1.00
	ĺ	saturated zone	Ì	saturated zone	Ì	saturated zone	Ì
	!	Ponding	1.00	Ponding	1.00	Ponding	1.00
Ulen	   10	  Not limited		  Not limited		  Somewhat limited:	
01611	10	 	i	 	i	Depth to	0.22
	į	İ	į	İ	į	saturated zone	İ
		[	[	ļ	[	[	ļ
Hamar	6	Very limited:	11.00	Very limited:	11.00	Very limited:	
	 	Depth to saturated zone	1	Depth to saturated zone	1	Depth to saturated zone	1.00
	i	!	1.00	!	1.00		1.00
	İ	Too sandy	0.31	Too sandy	0.31	Droughty	0.21
	!		ļ		ļ		ļ
Rosewood, depressional	3	  Very limited:	 	  Very limited:	 	  Very limited:	
depressionar	]	Depth to	1.00	Depth to	1.00	Ponding	1.00
	į	saturated zone	i	saturated zone	i	Depth to	1.00
		Ponding	1.00	Ponding	1.00	saturated zone	ļ
G			!		!		!
Syrene	3 	Very limited:   Depth to	1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	1.00
	i	saturated zone		saturated zone		saturated zone	
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
	!		!	!	ļ.	Droughty	0.30
Karlsruhe	   1	  Not limited		  Not limited		  Somewhat limited:	
karisrune	<u>+</u> 	NOT limited		NOT limited		Depth to	0.22
	<u> </u>			İ		saturated zone	
	İ	İ	İ	İ	İ	İ	İ
Strathcona	1	Very limited:	:	Very limited:		Very limited:	
		<u> </u>	1.00	! -	1.00	<u> </u>	1.00
		saturated zone Ponding	  1.00	saturated zone Ponding	  1.00	saturated zone Ponding	1.00

Table 18b.--Recreation--Continued

component name	Pct. of map unit	 	s	   Off-road   motorcycle trai 	ls	   Golf fairways   	
	unit   		•	   Rating class and   limiting features		   Rating class and   limiting features	
I55A: Thiefriver	     1     	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Very limited: Depth to saturated zone Ponding	      1.00    1.00
I57B: Sandberg	     50   	•		:	1	!	0.85
Radium	   25 	•		  Somewhat limited:   Too sandy		  Somewhat limited:   Droughty	    0.76
Sioux	   8 	  Not limited 	   	  Not limited 	   	  Somewhat limited:   Droughty	0.80
Oylen	   7 	  Not limited 	   	  Not limited 	   	  Somewhat limited:   Droughty	    0.01
Flaming	   5 	  Somewhat limited:   Too sandy	•	  Somewhat limited:   Too sandy		  Somewhat limited:   Droughty	    0.15
Garborg	   5     		0.50		0.50	Somewhat limited:   Depth to   saturated zone   Droughty	  0.78    0.02
I58A: Seelyeville	   90     	  Not rated     	       	  Not rated     	       	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00
Cathro	   3       	  Not rated         	         	  Not rated         	           		  1.00  1.00   
Dora	   3       	  Not rated         	         	  Not rated       	           	organic matter	  1.00  1.00      1.00
Markey	   3       	  Not rated         	           	  Not rated         	           	Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00    1.00
Berner	   1         	  Not rated           	           	  Not rated           	           	  Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00    1.00

Table 18b.--Recreation--Continued

component name	Pct. of	   Paths and trail   	s	   Off-road   motorcycle trai	ls	   Golf fairways   	
	unit	İ					
	 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	Value
I59A:	 	 	 	 	l i	 	
Smiley	   65   	! =	:	  Very limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone	1.00
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
Smiley, very cobbly	   10   	! =	!	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
Kratka	   9   	saturated zone	1.00 	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00
	¦ 	Fonding		Fonding		Foliating	
Roliss	5     	saturated zone	!	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Reiner	   4	  Not limited	[ [	  Not limited		  Not limited	 
Linveldt	   3	  Not limited	 	  Not limited	 	  Not limited	
Smiley, depressional	   3   	saturated zone	:	saturated zone	    1.00    1.00	Depth to	    1.00  1.00
Strandquist	   1   	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00
I60A:	 	 	 	 	l I	 	 
Smiley, depressional	80     	Depth to saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Smiley	   10     	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hamre	   5 	  Not rated   	     	  Not rated   	     	  Very limited:   Ponding   Content of	    1.00  1.00
Kratka	         5	      Very limited:	•	      Very limited:		organic matter Depth to saturated zone Very limited:	  1.00     
	     	saturated zone	1.00    1.00 	saturated zone	1.00    1.00 	saturated zone	1.00    1.00 

Table 18b.--Recreation--Continued

component name	Pct. of map unit	 	s	Off-road   motorcycle trai 	ls	Golf fairways   	
	   		Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
I61A: Strandquist	     70   	Depth to saturated zone	      1.00    1.00	saturated zone	      1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Mavie	   8     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding   Droughty	  1.00    1.00  0.01
Roliss	   7   	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Kratka	   5     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Foxhome	   4 	  Not limited 	   	  Not limited 	   	  Not limited 	   
Hangaard	       	saturated zone	1.00    1.00 	Very limited:   Depth to   saturated zone   Ponding      Not rated	  1.00    1.00     	Very limited:   Depth to   saturated zone   Ponding   Droughty    Very limited:   Ponding   Depth to	  1.00    1.00  0.92      1.00  1.00
I62A: Syrene	     70     	saturated zone	        1.00    1.00	    Very limited:   Depth to   saturated zone   Ponding	        1.00    1.00	saturated zone      Very limited:   Depth to   saturated zone   Ponding   Droughty	      1.00    1.00  0.30
Rosewood	   11     	Depth to saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hangaard	   5     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00  0.92
Karlsruhe	   4 	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.22 
Deerwood	   3     	  Not rated     	         	  Not rated     	         	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00 

Table 18b.--Recreation--Continued

component name	Pct. of map	   Paths and trail   	s	   Off-road   motorcycle trai 	ls	   Golf fairways   	
	unit	İ		<u> </u>		<u> </u>	
	 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	Value
I62A:	 	 	l I	 	l I	 	
Hamar	   3 		1.00	! -	:	Very limited:   Depth to	1.00
	   	!	  1.00  0.31	!	  1.00  0.31		  1.00  0.21
Strandquist	   2 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
		!	1.00	!	1.00	!	1.00
Radium	   1 	  Somewhat limited:   Too sandy	    0.36	  Somewhat limited:   Too sandy	    0.36	  Somewhat limited:   Droughty	    0.76
Wyandotte	   1 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	1   1.00	  Very limited:   Depth to   saturated zone	1.00
	 	!	1.00	!	1.00	!	1.00
I63A:	 	 	l I	 	 	 	
Thiefriver	70   70	! -	1.00	Very limited:   Depth to   saturated zone	:	Very limited:   Depth to   saturated zone	1.00
	 	!	1.00	!	1.00	!	1.00
Espelie	   10 	Depth to	    1.00	! -	1	! -	1.00
	 	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
Foxlake	   7 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Huot	   5 	  Not limited 	   	  Not limited 	   	  Not limited 	
Clearwater,			į		į		į
depressional	3   	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	Depth to	  1.00  1.00
Rosewood	   3 	! -	    1.00	! -	    1.00		    1.00
	 	saturated zone	1.00	saturated zone	1.00	saturated zone	1.00
Ulen	   1 	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.22
Wyandotte	     1	    Very limited:	 	    Very limited:	 	  -  Very limited:	İ
	 		1.00	•	1.00	:	  1.00 
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00

Table 18b.--Recreation--Continued

component name	Pct. of map	 	s	   Off-road   motorcycle trai	ls	   Golf fairways   	
	unit   	'	•	   Rating class and   limiting features		Rating class and limiting features	Value
I64A: Ulen	     70 	    Not limited   	       	    Not limited   	       	    Somewhat limited:   Depth to   saturated zone	      0.22
Rosewood	   10   	Depth to saturated zone	    1.00    1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Flaming	   8 	  Somewhat limited:   Too sandy	    0.31	  Somewhat limited:   Too sandy	    0.31	  Somewhat limited:   Droughty	    0.15
Karlsruhe	   5   	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.22 
Radium	   3 	  Somewhat limited:   Too sandy	    0.36	  Somewhat limited:   Too sandy	    0.36	  Somewhat limited:   Droughty	    0.76
Strathcona	   2     	saturated zone	!	saturated zone	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Thiefriver	   2     	saturated zone	1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	1.00
I65A: Ulen	     70 	!	      0.31	    Somewhat limited:   Too sandy 	      0.31	  Somewhat limited:   Depth to   saturated zone	      0.22
Rosewood	   10     	Depth to saturated zone	    1.00    1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Flaming	   6 	  Somewhat limited:   Too sandy	    0.31	  Somewhat limited:   Too sandy	    0.31	  Somewhat limited:   Droughty	0.15
Poppleton	   4 	  Very limited:   Too sandy	    1.00	  Very limited:   Too sandy	    1.00	  Somewhat limited:   Droughty	    0.09
Karlsruhe	   3   	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.22 
Radium	   3 	  Somewhat limited:   Too sandy	    0.36	  Somewhat limited:   Too sandy	    0.36	  Somewhat limited:   Droughty	    0.76
Strathcona	   2     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 18b.--Recreation--Continued

component name	Pct. Of map unit	 	s	Off-road   motorcycle trai 	ls	   Golf fairways   	3
	unit   	'	Value	Rating class and   limiting features	•	Rating class and   limiting features	Value
I65A: Thiefriver	   2     	saturated zone	      1.00    1.00	saturated zone	      1.00    1.00	saturated zone	    1.00    1.00
I66A: Vallers	     75   	Depth to saturated zone	    1.00    1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Vallers, very cobbly	   7     	saturated zone	:	Depth to saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Hamerly	   6   	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.78 	  Somewhat limited:   Depth to   saturated zone	    0.90
Grimstad	   3   	  Somewhat limited:   Depth to   saturated zone	    0.50 	  Somewhat limited:   Depth to   saturated zone	    0.50 	  Somewhat limited:   Depth to   saturated zone	    0.78 
Mavie	   3     	saturated zone	  1.00    1.00	saturated zone	1.00	   Very limited:   Depth to   saturated zone   Ponding   Droughty	  1.00    1.00  0.01
Roliss, depressional	   3   	saturated zone	    1.00    1.00	saturated zone	•	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Strathcona	   3     	Depth to saturated zone	    1.00    1.00	Depth to saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
I67A: Wheatville	     70   	!	      0.78	  Somewhat limited:   Depth to   saturated zone	      0.78	  Somewhat limited:   Depth to   saturated zone	    0.90
Augsburg	   13     	Depth to saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Glyndon	   8   	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00
Foxlake	   5     	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00

Table 18b.--Recreation--Continued

component name	Pct. of map	 	s	Off-road   motorcycle trai	ls	Golf fairways   	
	unit   	Rating class and   limiting features	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
			1		1		1
I67A: Hilaire	   2 	  Somewhat limited:   Too sandy	    0.31	  Somewhat limited:   Too sandy	    0.31	  Not limited 	 
Ulen	   2   	  Somewhat limited:   Too sandy 	    0.31 	  Somewhat limited:   Too sandy 	    0.31 	  Somewhat limited:   Depth to   saturated zone	  0.22 
169A:	 	 		 		 	
Wyandotte	   65   	Depth to saturated zone	1.00	saturated zone	1.00	saturated zone	1.00
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Foxlake	   10     	Depth to saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00
Espelie	   8     	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	ĺ	İ	Ì	İ	Ì	İ	İ
Clearwater, depressional	   5   	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Thiefriver	   5   	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Karlsruhe	   4 	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.22 
Syrene	   3     	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding   Droughty	  1.00    1.00  0.30
I70A: Strathcona	     70   	Depth to saturated zone	      1.00    1.00	saturated zone	      1.00    1.00	saturated zone	    1.00    1.00
Kratka	   10     	Depth to saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Roliss	   6     	  Very limited:   Depth to   saturated zone	į	  Very limited:   Depth to   saturated zone	į	  Very limited:	    1.00    1.00

Table 18b.--Recreation--Continued

component name	Pct. of map	 	S	Off-road motorcycle trai	ls	   Golf fairways   	
	unit   	'	•	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I70A: Grimstad	     5 	    Somewhat limited:   Depth to   saturated zone	      0.50	    Somewhat limited:   Depth to   saturated zone	      0.50	    Somewhat limited:   Depth to   saturated zone	      0.78
Mavie	   3     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00  0.01
Rosewood	   3   	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone	  1.00    1.00
Strathcona, depressional	     3     	saturated zone	      1.00    1.00	saturated zone	      1.00    1.00	Depth to	    1.00  1.00
I71A: Berner, ponded	     45       	  Not rated       	           	  Not rated       	           	  Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	    1.00  1.00    1.00
Cathro, ponded	   45       	  Not rated       	           	  Not rated   	         	Very limited:     Ponding     Content of     organic matter     Depth to     saturated zone	    1.00  1.00    1.00
Hamre	   2         	  Not rated         	           	  Not rated 	           	Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	    1.00  1.00    1.00
Kratka	   2     	saturated zone	•	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Northwood	   2   	  Not rated     	       	  Not rated     	       	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Roliss	   2     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00

Table 18b.--Recreation--Continued

component name	Pct. of map	į	s	Off-road   motorcycle trai 	ls	Golf fairways   	3
	unit	'	Value	Rating class and	Value	Rating class and	Value
	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
I71A: Seelyeville, ponded	     2   	  Not rated     	         	  Not rated     	         	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00
I72A: Pelan	     65	    Not limited	   	    Not limited	   	    Not limited	
Smiley	   10   	Depth to saturated zone	 	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Linveldt	8	  Not limited	 	  Not limited	 	  Not limited	ļ
Kratka	   5   	Depth to saturated zone	1.00 	saturated zone		   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strandquist	   5   	Depth to saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Reiner	   4	  Not limited	 	  Not limited		  Not limited	
Eckvoll	   3 	  Somewhat limited:   Too sandy 	    0.31	  Somewhat limited:   Too sandy	    0.31	  Not limited   	
I73A: Boash	   75   	Depth to saturated zone	:	saturated zone	1.00 	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Clearwater	   8   	Depth to   saturated zone   Too clayey	  1.00    1.00  1.00	saturated zone Too clayey	  1.00    1.00  1.00	saturated zone Too clayey	  1.00    1.00  1.00
Roliss	   8     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Clearwater, depressional	5       	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	Depth to	    1.00  1.00
Kittson	   2	  Not limited	   	  Not limited		  Not limited	
Newfolden	   2	  Not limited	!	  Not limited	!	  Not limited	

Table 18b.--Recreation--Continued

	Pct. of		3	Off-road motorcycle trai	ls	   Golf fairways 	3
	map unit	•		 			
	 	Rating class and limiting features		Rating class and   limiting features		Rating class and limiting features	Value
174A:	 	 	 	 	 	[ [	
Urban land	65	Not rated	į	Not rated	į	Not rated	į
Endoaquents	   35 	  Not rated 	   	  Not rated 	   	  Not rated 	
175A:	! 	 	 		 		¦
Radium	40 		  0.36	Somewhat limited:   Too sandy	  0.36	Somewhat limited:   Droughty	0.76
Sandberg	   20	  Somewhat limited:	 	  Somewhat limited:	 	  Somewhat limited:	
	 	Too sandy	0.30 	Too sandy	0.30 	Droughty Gravel content	0.85  0.01
Garborg	   15 	Depth to	0.50	: -	0.50	  Somewhat limited:   Depth to   saturated zone	    0.78
	! 				  0.31		0.02
Oylen	   10 	  Not limited 	   	  Not limited 	   	  Somewhat limited:   Droughty	    0.01
Flaming	   5 	•	    0.31	  Somewhat limited:   Too sandy	    0.31	  Somewhat limited:   Droughty	0.15
Karlsruhe	   3 	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.22 
Venlo	   3   	Depth to saturated zone	•	saturated zone		  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Hangaard	     2   	saturated zone	•	saturated zone	      1.00 	saturated zone Ponding	0.01      1.00    1.00
Sioux	     2 	    Not limited 	     	    Not limited 	     	Droughty    Somewhat limited:   Droughty	0.92      0.80
M-W: Miscellaneous water	    100	    Not rated 	     	    Not rated 	     	    Not rated 	   
W: Water	    100	    Not rated 	     	    Not rated 	     	    Not rated 	   

Table 19.--Wildlife Habitat

(See text for definitions of terms used in this table. Absence of an entry indicates that no rating is applicable)

		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants		<u> </u>	areas	life	life	
						ļ	ļ					!
B109A:												
Bowstring	45	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	l I	poor	I I	 	 		l I	I I	l I	 	 	l I
Fluvaquents	l   40	  Very	  Poor	  Poor	  Poor	Poor	  Poor	  Good	I  Good	  Very	  Poor	  Good
1 14 14 4401102	-v 	poor								poor		l
			i	i	i	i	i	i	i		i	i
Hapludalfs	5	Poor	Good	Good	Good	Good	Good	Very	Very	Fair	Good	Very
	İ	İ	į	İ	į	İ	İ	poor	poor	İ	İ	poor
		ĺ	İ	ĺ	ĺ	ĺ	İ	İ	ĺ	ĺ	ĺ	ĺ
Seelyeville	5	Very	Fair	Poor	Poor	Poor	Poor	Good	Good	Good	Poor	Good
		poor										
Water	5	!	!	!				!		!	!	!
				!								
B200A:						l market		 	   <b> </b>			
Garnes	70	Good	Good	Good	Good	Fair	Good	Poor	Poor	Good	Good	Poor
Chilgren	l l 13	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Good	  Fair
CIIIIgieii	l 13	Fair 	l Good	Fair	Fair	raii	Fall	l Good	Faii 	Fair 	I GOOG	raii
Eckvoll	l 5	  Fair	  Fair	  Good	  Good	Good	Fair	Poor	Poor	  Fair	  Good	Poor
		i	i	i		i	İ	i	i	i		İ
Garnes, very stony	5	Good	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
		ĺ	İ	ĺ	ĺ	ĺ	İ	İ	ĺ	ĺ	ĺ	ĺ
Grygla	4	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
Pelan	3	Poor	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Fair	Fair	Poor
				!								
B201A:	==	 		l mada	l mada	l market	 		 	l <del>m</del> ada		 
Chilgren	75 I	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Good	Fair
Garnes	l l 9	l  Good	  Good	l  Good	  Good	  Fair	  Good	Poor	l   Poor	l  Good	l  Good	  Poor
Garnes	] 	l Good	l Good	l Good	l Good	raii	l Good	I	FOOT	l Good	I GOOG	l L
Grygla	l 5	  Fair	  Good	  Fair	  Fair	Fair	Fair	  Good	  Fair	  Fair	  Fair	  Fair
Grygla, depressional	5	Poor	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
Hamre	5	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
Pelan	1	Poor	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Fair	Fair	Poor
	l	I	1	I	1	1	1	1	I	I	1	I

				Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>	<u> </u>	areas	life	life	<u> </u>
B202A:		l i	 	l I	 	l i	l i		l I	l I	l i	l I
Cathro	80	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
Hamre	8	  Poor	  Fair	  Poor	  Poor	  Poor	  Poor	  Good	  Good	  Poor	  Poor	  Good
Chilgren	3	  Fair 	  Good 	  Fair 	  Fair 	  Fair	  Fair	  Good 	  Fair 	  Fair 	  Good 	  Fair
Northwood	3	  Very   poor	Very  poor	  Poor 	  Poor 	Poor	Poor	Good	  Good 	  Very   poor	Poor	Good 
Berner	2	  Very   poor	  Poor 	  Poor 	  Poor 	Poor	Poor	Good	  Good 	  Poor 	Poor	Good
Grygla	2	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	Good	  Fair	  Fair	  Fair	  Fair
Seelyeville	2	  Very   poor	  Fair 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Good 	  Poor 	  Good 
B203A:		 	 	 	 				 	 		 
Northwood	75	Very poor	Very   poor	Poor	Poor	Poor	Poor	Good	Good	Very   poor	Poor	Good
Hamre	10	  Poor	  Fair	  Poor	  Poor	  Poor	  Poor	  Good	  Good	  Poor	  Poor	  Good
Grygla	7	  Fair 	  Good 	  Fair 	  Fair 	  Fair	  Fair	  Good 	  Fair 	  Fair 	  Fair	  Fair
Berner	5	  Very   poor	Poor	  Poor 	Poor	Poor	Poor	Good	  Good 	  Poor 	Poor	Good
Chilgren	3	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	Good	  Fair	  Fair	Good	  Fair
3204A:		 	 	 	 		 		 	 		 
Roliss	75	  Fair 	Good	  Fair 	  Fair	  Fair	  Fair	Good	  Fair 	  Good 	  Fair	  Fair
Grygla	8	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair

Table 19.--Wildlife Habitat--Continued

component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants			areas	life	life	
	I							l	ĺ			Ī
B202A:	İ	i	i	i	İ	i	i	i	i	i	i	į
Cathro	80	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	İ	i	i	i	İ	i	i	i	i	i	i	İ
Hamre	8	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	İ	i	i	i	İ	i	i	i	i	i	i	İ
Chilgren	3	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Good	Fair
	İ	i	i	į	İ	i	i	i	i	i	į	į
Northwood	3	Very	Very	Poor	Poor	Poor	Poor	Good	Good	Very	Poor	Good
	İ	poor	poor	İ	İ	İ	İ	İ	İ	poor	İ	İ
	ĺ	İ	İ	ĺ	İ	İ	İ	İ	İ	İ	ĺ	ĺ
Berner	2	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		poor										1
												1
Grygla	2	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
												[
Seelyeville	2	Very	Fair	Poor	Poor	Poor	Poor	Good	Good	Good	Poor	Good
		poor										[
B203A:												
Northwood	75	Very	Very	Poor	Poor	Poor	Poor	Good	Good	Very	Poor	Good
		poor	poor							poor		
Hamre	10	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
								ļ				
Grygla	7	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
	!		!	!	ļ	!	!	!	!		!	!
Berner	5	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	!	poor	ļ	!		ļ	ļ	!	!	!		!
				l 	 	<u> </u>	<u> </u>		<u> </u>			<u> </u>
Chilgren	3	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Good	Fair
D0043	ļ											
B204A: Roliss		l mades		l <del>m</del> adaa	l market	l market	l market		lena dan		l <del>m</del> ada	l made
ROIISS	75	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Good	Fair	Fair
Grygla	l l 8	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
Grygia	°	Fair	l Good	Fair	Fair	Fair	Fair	l Good	Fair	Fair	rair	Fair
Chilgren	l   5	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Good	  Fair
Curraten	3 	l Learr	l GOOG	l Learr	l Learr	l Larr	l Learr	l GOOG	l Learr	l Learr	l Good	l  rair
Garnes	l l 5	  Good	  Good	  Good	  Good	  Fair	  Good	  Poor	  Poor	  Good	  Good	  Poor
Gariles	. 3	1 9000	GOOG	l GOOG	l Good	learr	l Good	LOOT	LEGOT	l Good	Jood	LEGOT

Roliss, depressional----

Hamre-----

5

2

Poor

Poor

Poor

Fair

Fair

Poor

Poor

Poor

Poor

Poor

Poor

Poor

Good

Good

Good

Good

Poor

Poor

Poor

Poor

Good

Good

Table 19.--Wildlife Habitat--Continued

				Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit		Grasses	herba-		Conif-	Shrubs	Wetland			land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants			areas	life	life	
B205A:		l İ		l İ	 		 	 	l I	 	! 	 
Berner	80	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		poor	į į	į	į	į	į	į	į	į	į	į
Northwood	   7	  Very	  Very	  Poor	Poor	Poor	  Poor	  Good	  Good	  Verv	  Poor	  Good
NOT CHWOOD	,	poor	poor	1	1	1	1	1	000 <b>u</b> 	poor	1	
				! 	i	i	i i	i	i i		<u>.</u>	i i
Grygla	5	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
					ļ	ļ			ļ	!	!	
Cathro	3	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good 	Poor	Poor	Good
Hamre	3	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		İ	j i	İ	İ	İ	į	į	j	İ	İ	į
Seelyeville	2	Very	Fair	Poor	Poor	Poor	Poor	Good	Good	Good	Poor	Good
		poor		 		!						
B206A:		 		 			l I	 	l I	 	 	 
Hamre	80	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		İ	j i	j	j	İ	į	į	j	į	į	İ
Chilgren	8	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Good	Fair
Northwood	5	  •••	 	   <b>-</b>	 	 				 		
Northwood	5	Very   poor	Very   poor	Poor	Poor	Poor	Poor	Good	Good	Very   poor	Poor	Good
		<u> </u>	l boor	 	 		 	 	! 	<u>1</u> 0001	! 	 
Cathro	3	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		İ	j i	İ	İ	İ	į	į	j	İ	İ	į
Grygla	2	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
Roliss	2	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Good	  Fair	  Fair
ROIISS	<u>2</u> 	  rair	GOOG	rair	  rair	  rair	Larr	GOOG	  rair	l Good	Fall	  rair
B207A:		İ	i	İ	i	i	İ	i	i	i	i	İ
Pelan	70	Poor	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Fair	Fair	Poor
											!	
Chilgren	10	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Good	Fair
Garnes	10	  Good	  Good	  Good	  Good	  Fair	  Good	  Poor	  Poor	l  Good	  Good	Poor
Eckvoll	5	Fair	Fair	Good	Good	Good	Fair	Poor	Poor	Fair	Good	Poor
	_	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>
Grygla	5	Fair 	Good	Fair 	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
B208A:		 		 			 	 	! 	! 	! 	 
Grygla	75	  Fair	Good	  Fair	Fair	Fair	Fair	Good	Fair	  Fair	  Fair	Fair

			Table 1	L9W110	ине на	oitatCo	ontinuea					
		I		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	•	Conif-	Shrubs	Wetland	Shallow		land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>		areas	life	life	<u> </u>
B208A:												!
Chilgren	l l 10	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Good	  Fair
CIIIIgieii	l 10	  rair	l Good	  rair	Lair	Lair	Lair	l Good	  rair	rair	GOOG	rair
Eckvoll	5	Fair	Fair	Good	Good	Good	Fair	Poor	Poor	Fair	Good	Poor
		!						!	!	!	!	ļ
Grygla, depressional	5	Poor	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
Northwood	l l 5	  Very	  Very	  Poor	  Poor	  Poor	  Poor	  Good	  Good	  Very	  Poor	  Good
NOT CIIWOCQ	1	poor	poor	1	1	1	1	l Good	l Good	poor	1	I
	İ			i	i		i	i	i			i
B209A:	İ	i	i	i	i	i	i	i	İ	İ	i	į
Seelyeville	90	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		poor						[	ļ		[	[
Cathro	3	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	l I	poor	l I	l I	 	l I	 	l I	l I	l I	l I	
Dora	l   3	  Very	Very	  Very	Poor	Poor	Poor	  Good	  Good	  Very	Poor	  Good
	i	poor	poor	poor						poor		
	İ	i -	i -	i -	j	j	j	i	j	i -	i	į
Markey	3	Very	Very	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		poor	poor						ļ		[	I
<b>D</b>			 		 	 	 			 		
Berner	1	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	l I	poor	l I	l I	 	l I	 	l I	l I	l I	l I	
B210A:	! 	i i	i i	i	i	İ	İ	! 	i i	! 	! 	i i
Eckvoll	70	Fair	Fair	Good	Good	Good	Fair	Poor	Poor	Fair	Good	Poor
	İ	į	İ	į	İ	İ	İ	İ	j	į	İ	İ
Chilgren	12	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Good	Fair
		<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		  - ·	 		
Grygla	8 	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
Garnes	l l 7	  Good	l Good	  Good	  Good	  Fair	l  Good	  Poor	  Poor	l  Good	l  Good	  Poor
00200	, , 											
Pelan	3	Poor	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Fair	Fair	Poor
												1
B211A:								[				Į.
Berner, ponded	45	Very	Very	Very	Very	Very	Very	Good	Good	Very	Very	Good
	ļ	poor	poor	poor	poor	poor	poor			poor	poor	!
Cathro, ponded	   45	  Very	  Very	  Very	  Very	  Very	  Very	  Good	  Good	  Very	  Very	  Good
cacino, ponded	=2	poor	poor	poor	poor	poor	poor	500a 	<del>  600</del> 0	poor	poor	6000
	' 							i	İ			i
Chilgren	2	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Good	Fair
	İ	i	İ	İ	i	İ	İ	İ	İ	İ	i	İ

Table 19.--Wildlife Habitat--Continued

Table 19.--Wildlife Habitat--Continued

	l	l			al for h	abitat e	rements					bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit		Grasses				Shrubs	Wetland			land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants 	trees	plants	<u> </u>		areas	life	life	
B211A:		 	 	 	İ	 	 	 	l İ	 	 	 
Grygla	2	  Fair	Good	Fair	Fair	Fair	Fair	Good	  Fair	Fair	Fair	Fair
Hamre	2	  Poor	  Fair	  Poor	Poor	Poor	Poor	Good	  Good	  Poor	Poor	Good
Northwood	2	  Very   poor	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Very   poor	  Poor 	  Good 
Seelyeville, ponded	2	  Very   poor	  Very   poor	  Very   poor	Very   poor	  Very   poor	  Very   poor	  Good 	  Good 	  Very   poor	  Very   poor	  Good 
[1A:		l İ	! 	l İ	İ	 	 	l I	! 	 	 	 
Augsburg	75	Fair	Good	  Fair	Fair	Poor	Fair	Fair	Fair	Good	Fair	Fair
Borup	10	  Fair	Fair	  Fair	Fair	Fair	Fair	Good	  Good	Fair	Fair	Good
Foxlake	5	  Fair	  Fair	  Fair	  Fair	  Fair	Poor	Poor	  Good	  Good	  Fair	  Fair
Augsburg, depressional	3	  Poor	  Poor	  Poor	Poor	Poor	Poor	  Good	  Good	  Poor	Poor	  Good
Wheatville	3	  Good	  Good	  Good	  Fair	Poor	  Fair	Poor	  Poor	  Good	  Fair	Poor
Glyndon	2	  Good	  Good	  Good	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Poor
Espelie	1	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good	  Fair	  Fair	  Good
Hattie	   1 	  Fair 	  Good 	  Fair 	  Fair 	  Good 	  Fair 	  Very   poor	  Very   poor	  Fair 	  Good 	  Very   poor
I3A: Berner	80	    Very   poor	    Poor 	    Poor 	    Poor 	    Poor 	    Poor 	    Good 	    Good 	    Poor 	    Poor 	    Good 
Northwood	   7 	  Very   poor	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Very   poor	  Poor 	  Good 
Kratka	5	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
Hamre	3	  Poor	  Fair	  Poor	Poor	Poor	Poor	  Good	  Good	  Poor	Poor	  Good
Strathcona	3	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	Good	  Good	  Fair	  Fair	Good
Seelyeville	   2 	  Very   poor	  Fair 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Good 	  Poor 	  Good 

Table 19.--Wildlife Habitat--Continued

		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for-
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants		<u> </u>	areas	life	life	
										[		
I4A:				ļ	ļ	!	ļ	!			!	!
Berner	30	Very		Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		poor	poor									
Rosewood, depressional	l l 30			  Poor	  Poor	  Poor	  Poor	  Good	  Good	  Poor	  Poor	  Good
Rosewood, depressionar	] 30 I	Very		LEOOL	POOL	POOL	POOL	I GOOG	GOOG	LEOOL	POOL	I GOOG
	l I	poor	poor	l I	l I	l I	 	I I	l I	l I	 	 
Strathcona, depressional	l l 30	  Very	  Very	  Poor	Poor	Poor	Poor	  Good	I  Good	  Poor	Poor	  Good
,		poor	poor									1
				i	i	i	i	i		i	i	i
Rosewood	4	Fair	Fair	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
	İ	İ	į	j	İ	İ	İ	İ	İ	İ	İ	İ
Deerwood	2	Very	Very	Poor	Poor	Poor	Poor	Good	Good	Very	Poor	Good
		poor	poor							poor		1
												I
Mavie	2	Fair	Fair	Fair	Fair	Poor	Fair	Good	Good	Fair	Fair	Good
Strathcona	2	Fair	Good	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
			ļ	ļ								
I5A: Borup	l l 75	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Good	l  Good	  Fair	  Fair	  Good
Borup	/5 	Fair 	Fair	rair 	Fair	Fair	Fair	Good	l Good	rair 	Fair	l Good
Glyndon	l l 9	I  Good	l  Good	l  Good	  Fair	  Fair	  Fair	Poor	l   Poor	l  Good	  Fair	Poor
GI y ildoir	, 	l good	l Good	l good				1	1	l Good		1
Rosewood	8	  Fair	Fair	  Fair	Fair	Fair	Fair	Good	ı   Good	  Fair	Fair	Good
		İ	i	i	İ	i	İ			i	i	İ
Augsburg	5	Fair	Good	Fair	Fair	Poor	Fair	Fair	Fair	Good	Fair	Fair
	ĺ	j	į	j	İ	į	İ	į	İ	İ	į	İ
Augsburg, depressional	3	Poor	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
												1
I7A:												
Bowstring	45	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
		poor		ļ	ļ	!	ļ	!			!	!
Fluvaquents	45	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Very	Poor	Good
		poor							  -	poor		!
Hapludolls	l l 5	l Cood	l Cood	l Cood	  Cood	Cood	  Fair	   Doom	170000	l Cood	  Good	1770777
napiudoiis	ı <sup>o</sup>	Good 	Good	Good	Good	Good	rair	Poor	Very   poor	Good	l Goog	Very
	l I	l I	 	l I	 		 	I I	l POOT	I I	I I	poor
Water	l l 5	l I	 	l I		 	 		l I	l I		 
	, ,	ı	1	I	1	1	1	1	I	I	1	1

Table 19.--Wildlife Habitat--Continued

		l		Potenti	al for h	abitat e	rements			Potenti	aı as na	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>	<u> </u>	areas	life	life	<u> </u>
   I8A:		 		 				 	 	 		
Cathro	80	Poor	Fair	Poor	Poor	Poor	Poor	Good	  Good	Poor	Poor	Good
Hamre	8	  Poor	  Fair	  Poor	Poor	Poor	Poor	  Good	  Good	  Poor	Poor	Good
Northwood	3	  Very   poor	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Very   poor	  Poor 	  Good 
Roliss	3	  Fair	Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Good	  Fair	  Fair
Berner	2	  Very   poor	  Poor 	  Poor 	  Poor 	Poor	Poor	  Good 	  Good 	  Poor 	Poor	  Good 
Kratka	2	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
Seelyeville	2	  Very   poor	  Fair 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Good 	  Poor 	  Good 
19A:				 				 	 	 		
Clearwater	80	Poor	Poor	Fair 	Fair	Fair	Poor	Good	Good 	Good 	Fair	Good 
Clearwater, very cobbly	5	  Poor 	Poor	  Fair 	Fair	Fair	Poor	  Good 	  Good 	  Good 	Fair	Good
Reis	5	  Fair 	Fair	  Fair 	Poor	  Fair	  Fair	Good	  Good 	  Fair 	Poor	Good
Clearwater, depressional	3	  Poor 	Poor	  Poor 	Poor	Poor	Poor	  Good 	  Good 	  Poor 	Poor	Good
Espelie	3	  Fair 	  Good 	  Fair 	  Fair	  Fair	  Fair	  Good 	  Good 	  Fair 	  Fair	Good
Foxlake	2	  Fair	  Fair	  Fair	  Fair	  Fair	Poor	  Poor	  Good 	  Good 	  Fair	  Fair
Hattie	1	  Fair 	  Good 	  Fair 	  Fair 	Good	  Fair 	Very   poor	  Very   poor	  Fair 	Good	Very   poor
Huot	1	  Good	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Fair
Deerwood	85	Very   poor	Very   poor	  Poor 	Poor	Poor	Poor	Good	  Good 	  Very   poor	Poor	Good
Rosewood	6	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Good	  Good 	  Fair	  Fair	  Good
Markey	3	  Very   poor	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Poor 	  Poor 	  Good 

Table 19.--Wildlife Habitat--Continued

		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants			areas	life	life	
11A:		 	 	 	 			 	 	 		 
Strathcona	2	Fair	Good	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
Syrene	2	  Fair	  Fair	  Fair	Fair	Poor	Fair	Good	  Good	  Fair	Fair	Good
Venlo	2	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Poor 	  Poor 	  Good 
12A:		 							 	 		
Eckvoll	70	Fair 	Fair 	Good 	Good 	Good 	Fair	Poor	Poor	Fair 	Good 	Poor
Kratka	8	Fair	Good	  Fair	Fair	Fair	Fair	Good	  Fair	Fair	Fair	Fair
Smiley	7	  Fair	Good	  Fair	Fair	Fair	Fair	Good	  Fair	  Fair	Fair	  Fair
Linveldt	5	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	Poor	  Poor	  Fair	  Fair	Poor
Reiner	5	  Good	  Good	  Good	  Good	  Good	  Good	Poor	  Poor	  Fair	  Fair	Poor
Foldahl	2	  Fair	  Good	  Good	  Good	  Fair	  Fair	Poor	  Poor	  Good	  Fair	Poor
Pelan	2	  Poor	  Fair	  Fair	  Fair	  Fair	  Fair	Poor	  Poor	  Fair	  Fair	Poor
Poppleton	1	  Poor	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Fair	  Fair	  Poor
:13A:	İ	 	l I	l I	l I			l I	l I	 		l I
Espelie	75	  Fair	Good	  Fair	  Fair	  Fair	Fair	Good	  Good 	  Fair	  Fair	Good
Foxlake	8	  Fair	  Fair	  Fair	  Fair	  Fair	Poor	Poor	  Good 	  Good	Fair	  Fair
Hilaire	7	  Fair	Good	  Good	  Fair	  Fair	  Fair	Poor	  Poor	  Good	  Fair	Poor
Clearwater, depressional	5	  Poor	Poor	  Poor	Poor	Poor	Poor	  Good	  Good	  Poor	Poor	  Good
Thiefriver	5	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good	  Fair	  Fair	  Good
:15A:		 	l I	l I	 	l I	l I	l I	 	 	 	 
Flaming	70	  Fair	Fair	  Good	Fair	Fair	Fair	Fair	  Poor	  Fair	Fair	Poor
Garborg	10	  Poor	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor
Hamar	5	  Poor	  Good	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair
Ulen	5	  Fair	  Good	  Good	  Fair	  Poor	  Fair	  Poor	  Poor	  Fair	  Fair	  Poor

Table 19.--Wildlife Habitat--Continued

l l		l		Potenti	al for n	abitat e	lements			Potenti	aı as na	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>	<u> </u>	areas	life	life	
15A:	 	 	 	l I			 		 	 		 
Poppleton	3	Poor	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Fair	Fair	Poor
Sandberg	   3 	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Very   poor	  Very   poor	  Fair 	  Fair 	  Very   poor
Foldahl	   2	  Fair	  Good	  Good	  Good	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Poor
Radium	   2 	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Poor 	  Very   poor	  Fair 	  Fair 	  Very   poor
16F:	 	 		 					 	 		
Fluvaquents	55 	Very   poor	Poor	Poor	Poor	Poor	Poor	Good	Good	Very   poor	Poor	Good
Hapludolls	   25 	  Good 	  Good 	  Good 	Good 	Good 	  Fair 	Poor	  Very   poor	  Good 	Good 	Very  poor
  Hapludalfs  	   7 	  Poor 	  Good 	  Good 	  Good 	  Good 	  Good 	  Very   poor	  Very   poor	  Fair 	  Good 	  Very   poor
	   5 	  Fair 	  Good 	  Good 	  Good 	  Good 	  Fair 	  Very   poor	  Very   poor	  Good 	  Good 	  Very   poor
Water	   5	 	 	 	 	 		 	 	 	 	 
Bowstring	   2 	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Poor 	  Poor 	  Good 
Rauville	   1 	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Very   poor	  Poor 	  Good 
17A:	İ	l I	 	l I	 	 	l I	l I	 	 	 	 
Foldahl	75	  Good	Good	  Good	Good	Fair	Fair	Poor	Poor	Good	Fair	Poor
Kratka	   10	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	Good	  Fair	  Fair	  Fair	  Fair
Roliss	   5	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	Good	  Fair	  Good	  Fair	  Fair
Flaming	   4	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor
Grimstad	2	  Good	  Good	  Fair	  Fair	  Fair	  Fair	Poor	  Poor	  Fair	  Fair	  Fair
  Linveldt	   2	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Fair	  Fair	  Poor

Table 19.--Wildlife Habitat--Continued

ļ		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for-
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>		areas	life	life	
   I17A:		 	 	 			 		 	 		
Eckvoll	1	Fair	Fair	Good	Good	Good	Fair	Poor	Poor	Fair	Good	Poor
Strathcona	1	  Fair	  Good	  Fair	Fair	  Fair	  Fair	  Good	  Good	  Fair	  Fair	  Good
I18A:		 	 	 			 	 	 	 		 
Foldahl	75	Fair	Good	Good	Good	Fair	Fair	Poor	Poor	Good	Fair	Poor
Kratka	10	  Fair 	  Good 	  Fair 	  Fair	  Fair	  Fair	Good	  Fair 	  Fair 	  Fair	  Fair
Roliss	5	  Fair 	  Good 	  Fair 	  Fair	  Fair	  Fair	Good	  Fair 	  Good 	  Fair	  Fair
Flaming	4	  Fair 	  Fair 	  Good 	  Fair	  Fair	  Fair 	  Fair 	  Poor 	  Fair 	  Fair	Poor
	2	  Good 	Good 	  Fair 	  Fair 	  Fair 	  Fair	  Fair 	  Poor 	  Fair 	  Fair	  Poor
Linveldt	2	  Fair 	  Fair 	  Fair 	  Fair	  Fair	  Fair	Poor	  Poor 	  Fair 	  Fair	  Poor
Eckvoll	1	  Fair 	  Fair 	  Good 	  Good 	  Good 	  Fair 	Poor	  Poor 	  Fair 	  Good 	Poor
Strathcona	1	  Fair 	Good	  Fair	Fair	Fair	Fair	Good	  Good 	  Fair	Fair	Good
119A:		! 	 	i	i	ŀ	i	i i	i i	! 	ŀ	i i
Foxhome	65	  Good 	  Good 	  Good 	Fair	  Fair	  Fair	Poor	Poor	  Good 	Fair	Poor
Kittson	10	  Good 	Good 	  Good 	  Fair	  Fair	Good	Poor	  Poor 	  Good 	  Fair	  Poor
Strandquist	10	  Fair 	  Fair 	  Fair 	  Fair	Poor	  Fair	Good	  Good 	  Good 	  Fair	Good
Foldahl	5	  Good 	  Good 	  Good 	  Good 	  Fair	  Fair 	Poor	  Poor 	  Good 	  Fair	  Poor
Grimstad	5	  Good 	  Good 	  Fair 	Fair	Fair	Fair	  Fair	  Poor 	  Fair 	Fair	Poor
Roliss	3	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Fair 	Good	  Fair 	  Good 	  Fair	  Fair 
Mavie	2	  Fair 	  Fair 	  Fair 	  Fair	Poor	  Fair 	Good	  Good 	  Fair 	  Fair	Good 
I20A:   Foxlake	75	    Fair	    Fair	    Fair	  Fair	  Fair	  Poor	  Poor	    Good	    Good	  Fair	    Fair
Clearwater	5	  Poor	  Poor	  Fair	  Fair	  Fair	  Poor	  Good	  Good	  Good	  Fair	Good
Foxlake, very cobbly	5	  Fair	  Fair	  Fair	  Fair	  Fair	Poor	Poor	  Good	  Good	  Fair	  Fair

Table 19.--Wildlife Habitat--Continued

	 I	I		Potenti	al for h	abitat e	lements			Potenti	al ac ha	bitat for-
Map symbol	Pct. of	   Grain		Wild	<u>ai 101 11</u> I	I	l emerics			Open-	Wood-	Wetland
and	map unit	!	Grasses	!	   Ward-	  Conif-	Shruba	  Wetland	l İshallow		land	wetland
component name	l map dire	seed	and	ceous	wood	erous	l DIII and	plants	water	wild-	wild-	life
Component name	l I	!	!	!		:	 	Prants	:		life	1 1116
	l	crops	legumes	prants 	trees	plants	<u> </u>		areas	life	IIIe	l
120A:		 	 	 	 		 	! 	l I	 	 	 
Augsburg	,   3	Fair	Good	  Fair	Fair	Poor	Fair	Fair	Fair	Good	Fair	  Fair
		İ	İ		i	i	İ	i	i		i	i
Clearwater, depressional	3	Poor	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
Espelie	3	Fair	Good	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
Hilaire	2	Fair	Good	Good	Fair	Fair	Fair	Poor	Poor	Good	Fair	Poor
Reis	l l 2	  Fair	  Fair	  Fair	   De ess	  Fair	  Fair		  Good	 	   De ess	
keis	4 	rair 	Fair	Fair 	Poor	Fair	Fair	Good	l Good	Fair	Poor	Good
Wheatville	l l 2	l  Good	  Good	l  Good	  Fair	Poor	  Fair	  Poor	  Poor	l  Good	  Fair	  Poor
Micaeville	, ~ 			000 <b>u</b> 				1	1			 
122A:		i	i		i	i	i	i	i	i	i	i
Glyndon	75	Good	Good	Good	Fair	Fair	Fair	Poor	Poor	Good	Fair	Poor
	İ	j	į	İ	į	į	İ	į	j	İ	į	j
Borup	10	Fair	Fair	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
Augsburg	5	Fair	Good	Fair	Fair	Poor	Fair	Fair	Fair	Good	Fair	Fair
	_				ļ 						ļ	
Ulen	5	Fair	Good	Good	Fair	Poor	Fair	Poor	Poor	Fair	Fair	Poor
Wheatville	l l 3	  Good	  Good	  Good	  Fair	Poor	  Fair	  Poor	  Poor	  Good	  Fair	  Poor
Mileacville	, , 	l Good	I	l good		1		1	1	l Good		1
Flaming	l l 2	  Fair	Fair	  Good	Fair	Fair	Fair	  Fair	Poor	  Fair	Fair	Poor
	İ	İ	i	İ	i	i	i	i	İ	i	i	İ
124A:	İ	j	į	İ	į	į	İ	į	j	İ	į	j
Grimstad	70	Good	Good	Fair	Fair	Fair	Fair	Fair	Poor	Fair	Fair	Poor
Strathcona	12	Fair	Good	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
	_					ļ 					ļ	
Foldahl	5	Good	Good	Good	Good	Fair	Fair	Poor	Poor	Good	Fair	Poor
Hamerly	l l 5	  Good	  Good	  Good	  Good	  Good	  Fair	  Poor	  Poor	  Good	  Good	  Poor
namerly	] <sup>3</sup>	l Good	l Good	l Good	I GOOG	I GOOG	Fall	l LOOT	l boot	l Good	I GOOG	l boot
Foxhome	l l 2	I  Good	  Good	I  Good	  Fair	Fair	  Fair	Poor	  Poor	  Good	  Fair	  Poor
	_ 											
Karlsruhe	2	Fair	Good	Good	Fair	Fair	Fair	Fair	Poor	Good	Fair	Poor
		İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
Mavie	2	Fair	Fair	Fair	Fair	Poor	Fair	Good	Good	Fair	Fair	Good
Ulen	2	Fair	Good	Good	Fair	Poor	Fair	Poor	Poor	Fair	Fair	Poor

Table 19Wildlife HabitatContinued													
	<u> </u>	Potential for habitat elements								Potential as habitat for			
Map symbol	Pct. of	Grain	l	Wild		1		I		Open-	Wood-	Wetland	
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-	
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life	
	<u> </u>	crops	legumes	plants	trees	plants			areas	life	life	L	
	I	I								I	I	I	
I25A:												1	
Hamar	75	Poor	Good	Fair	Good	Fair	Fair	Fair	Fair	Fair	Fair	Fair	
												[	
Garborg	10	Poor	Fair	Good	Fair	Fair	Fair	Fair	Poor	Fair	Fair	Poor	
												[	
Rosewood	7	Fair	Fair	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good	
Venlo	3	Very	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good	
		poor											
Flaming	2	Fair	Fair	Good	Fair	Fair	Fair	Fair	Poor	Fair	Fair	Poor	
												1	
Hangaard	2	Poor	Fair	Fair	Fair	Poor	Poor	Good	Good	Fair	Fair	Good	
												1	
Kratka	1	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair	
												1	
I26A:												1	
Hamerly	75	Good	Good	Good	Good	Good	Fair	Poor	Poor	Good	Good	Poor	
	ĺ	ĺ	İ	İ	İ	İ	İ	ĺ	ĺ	ĺ	İ	ĺ	
Vallers	12	Fair	Fair	Fair	Fair	Poor	Fair	Good	Good	Good	Fair	Good	
	ĺ	ĺ	İ	İ	İ	İ	İ	ĺ	ĺ	ĺ	İ	ĺ	
Foxhome	3	Good	Good	Good	Fair	Fair	Fair	Poor	Poor	Good	Fair	Poor	
	ĺ	İ	İ	İ	İ	İ	İ	ĺ	ĺ	ĺ	İ	ĺ	
Grimstad	3	Good	Good	Fair	Fair	Fair	Fair	Fair	Poor	Fair	Fair	Poor	
	ĺ	İ	İ	İ	İ	İ	İ	ĺ	ĺ	ĺ	İ	ĺ	
Hamerly, very cobbly	3	Good	Good	Good	Good	Good	Fair	Poor	Poor	Good	Good	Poor	
	ĺ	İ	İ	İ	İ	İ	İ	ĺ	ĺ	ĺ	İ	ĺ	
Strathcona	3	Fair	Good	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good	
	ĺ	İ	İ	İ	İ	İ	İ	ĺ	ĺ	ĺ	İ	ĺ	
Roliss, depressional	1	Poor	Poor	Fair	Poor	Poor	Poor	Good	Good	Poor	Poor	Good	
	ĺ	ĺ	İ	İ	İ	İ	İ	ĺ	ĺ	ĺ	İ	ĺ	
I27A:												1	
Hamre	80	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good	
Northwood	5	Very	Very	Poor	Poor	Poor	Poor	Good	Good	Very	Poor	Good	
		poor	poor							poor		1	
												1	
Roliss	5	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Good	Fair	Fair	
Smiley	5	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair	
	l												
Cathro	3	Poor	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good	
	l	I										I	
Kratka	2	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair	
	l	I										I	

Table 19.--Wildlife Habitat--Continued

		I		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for-
Map symbol	Pct. of	Grain	:	Wild	[	<u> </u>	!	[	<u> </u>	Open-	Wood-	Wetland
and	map unit	!	Grasses			Conif-	Shrubs	Wetland	:	•	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants 	trees	plants	<u> </u>	<u> </u>	areas	life	life	l
[32A:		i	;	! 	<u> </u>	İ		;	i	i	i	<u> </u>
Hilaire	75	Good	Good	Good	Fair	Fair	Fair	Poor	Poor	Fair	Fair	Poor
Espelie	12	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good 	  Fair	  Fair	  Good 
Huot	5	  Good	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Fair
Flaming	2	  Fair	  Fair	  Good 	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor
Foxlake	2	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Good 	  Good 	  Fair	  Fair
Wheatville	2	  Good 	  Good 	  Good 	  Fair 	  Poor	  Fair 	  Poor	  Poor	  Good 	  Fair 	  Poor
Thiefriver	1	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good 	  Fair	  Fair	  Good
Wyandotte	1	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Good	  Good 	  Fair	  Fair	  Good
134A:		 	 	 	 	 	 	 	 	 	 	 
Huot	75	Good	Good	  Fair	  Fair	  Fair	Fair	Poor	Poor	Good	Fair	  Fair
Thiefriver	12	  Fair 	  Good 	  Fair 	  Fair 	  Fair	  Fair	  Good 	  Good 	  Fair 	  Fair 	Good
Hilaire	5	  Good 	  Good 	  Good 	  Fair 	  Fair 	  Fair	  Poor 	  Poor 	  Fair 	  Fair 	  Poor
Flaming	3	  Fair 	  Fair 	  Good 	  Fair 	  Fair 	  Fair	  Fair 	  Poor 	  Fair 	  Fair 	  Poor
Foxlake	3	  Fair 	  Fair 	  Fair 	  Fair 	  Fair 	Poor	  Poor 	  Good 	  Good 	  Fair 	  Fair 
Ulen	2	  Fair 	  Good 	  Good 	  Fair	  Poor	  Fair	  Poor	  Poor	  Fair 	  Fair	  Poor
I36A:		! 	 	 	! 	i İ	 	 	l İ	! 	 	 
Kittson	70	Good	Good	Good	Fair	Fair	Good	Poor	Poor	Good	Fair	Poor
Roliss	12	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Good 	  Fair	  Fair
Hamerly	5	  Good 	  Good 	  Good 	  Good 	  Good	  Fair	  Poor	  Poor	  Good 	  Good 	  Poor
Kratka	5	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Fair 
Grimstad	3	  Good 	  Good 	  Fair 	  Fair 	  Fair	  Fair	  Fair 	  Poor 	  Fair 	  Fair 	  Poor
Strandquist	3	  Fair 	  Fair 	  Fair 	  Fair 	  Poor	  Fair 	  Good 	  Good 	  Good 	  Fair 	  Good 
Foxhome	2	  Good	  Good	  Good	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Poor

Table 19.--Wildlife Habitat--Continued

				Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol	Pct. of	Grain	I	Wild	1	1	I	I	I	Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>	<u> </u>	areas	life	life	<u> </u>
I38A:	 	 	 	 			 		 	 	 	 
Kratka	l l 70	  Fair	Good	  Fair	Fair	  Fair	  Fair	Good	  Fair	  Fair	  Fair	  Fair
	''											
Smiley	7	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
Foldahl	   5	  Good 	  Good	  Good	  Good	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Poor
Kratka, very cobbly	   5 	  Fair 	  Good 	  Fair 	  Fair	  Fair	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Fair 
Strathcona	   5 	  Fair 	  Good 	  Fair 	  Fair	  Fair 	  Fair 	  Good 	  Good 	  Fair 	  Fair 	  Good 
Kratka, depressional	   3 	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Poor 	  Poor 	  Good 
Strandquist	   3 	  Fair 	  Fair 	  Fair 	  Fair 	Poor	  Fair 	  Good 	  Good 	  Good 	  Fair 	  Good 
Linveldt	   2 	  Fair 	  Fair 	  Fair 	  Fair 	  Fair 	  Fair 	Poor	  Poor 	  Fair 	  Fair 	  Poor 
I39A:		İ	i	i	İ	i	i	i	İ	i	i	i
Linveldt	65	Fair	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Fair	Fair	Poor
Kratka	   14	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
AL d Chu												
Reiner	10 	Good 	Good 	Good 	Good 	Good 	Good 	Poor	Poor	Fair 	Fair 	Poor
Smiley	5   5	  Fair 	Good	Fair	Fair	Fair	  Fair 	Good	Fair	  Fair 	  Fair 	  Fair 
Eckvoll	3 	  Fair 	  Fair	  Good 	Good	Good	  Fair 	Poor	  Poor 	  Fair 	  Good 	  Poor 
Foldahl	   2	  Good 	  Good 	  Good 	Good	  Fair	  Fair 	Poor	  Poor 	  Good 	  Fair 	  Poor 
Pelan	1	  Poor 	  Fair 	  Fair 	  Fair 	  Fair 	  Fair 	Poor	  Poor 	  Fair 	  Fair 	  Poor 
I41A:	! 	! 	i	i i	i i	i i	i	i	i i	! 	i i	i I
Markey	80	Very	Very	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
j	ĺ	poor	poor	į	į	į	į	į	į	į	į	į
Deerwood	   12	  Very	  Very	  Poor	  Poor	  Poor	  Poor	  Good	  Good	  Very	  Poor	  Good
Deerwood	12 	very   poor	poor	POOL	POOT		POOT	 	l Good	very   poor	POOT	Good
i	İ	į	į	į	i	į	i	į	į	į	i	İ
Berner	2	Very   poor	Poor	Poor	Poor	Poor	Poor	Good	Good 	Poor	Poor	Good 
Hamar	   2	  Poor	  Good	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair

Table 19.--Wildlife Habitat--Continued

		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for-
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
	<u> </u>	crops	legumes	plants	trees	plants		<u> </u>	areas	life	life	
I41A:	 	 		l I			 		 	 	 	 
Seelyeville	2	Very	Fair	Poor	Poor	Poor	Poor	Good	Good	Good	Poor	Good
•		poor			İ				İ	İ		
Syrene	   2	  Fair	  Fair	  Fair	  Fair	Poor	  Fair	  Good	  Good	  Fair	  Fair	  Good
I42A:	 	 	l l	 	i i	l I	 	l l	 	 	 	 
Markey, ponded	85	Very	Very	Very	Very	Very	Very	Good	Good	Very	Very	Good
	į	poor	poor	poor	poor	poor	poor	į	į	poor	poor	į
Markey	l l 5	  Very	  Very	  Poor	  Poor	Poor	  Poor	Good	  Good	  Poor	Poor	  Good
		poor	poor									
Deerwood	   4	  Very	  Very	  Poor	Poor	  Poor	  Poor	Good	  Good	  Very	Poor	  Good
Deel wood	*	poor	poor							poor		
Seelyeville, ponded	   4	  Very	  Very	  Very	  Very	  Very	  Very	Good	  Good	  Very	  Very	  Good
seeiyeviile, ponded	<del>*</del> 	poor	poor	poor	poor	poor	poor			poor	poor	
_		İ	į .	<u>.</u>		<u> </u>	į .	<u> </u>	<u>.</u>	<u>.</u>	<u> </u>	į .
Hamar	1 	Poor	Good	Fair 	Good 	Fair	Fair 	Fair	Fair 	Fair 	Fair	Fair
Hangaard	1	Poor	Fair	Fair	Fair	Poor	Poor	Good	Good	Fair	Fair	Good
I43A:	 	 		 			 		 	 	 	 
Mavie	70	Fair	Fair	Fair	Fair	Poor	Fair	Good	Good	Fair	Fair	Good
Vallers	   10	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Good	  Good	  Good	  Fair	  Good
	_	į .	į .	į .	į .	į	į .	į .	į į	į į	į .	į .
Strandquist	7 	Fair 	Fair	Fair 	Fair	Poor	Fair 	Good 	Good 	Good 	Fair	Good
Strathcona	5	Fair	Good	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
Strathcona, depressional	   3	  Poor	  Poor	  Poor	  Poor	  Poor	  Poor	  Good	  Good	  Poor	  Poor	  Good
	İ	İ		İ	i							
Foxhome	2 	Good 	Good	Good 	Fair	Fair	Fair	Poor	Poor	Good 	Fair	Poor
Karlsruhe	2	Fair	Good	Good	Fair	Fair	Fair	Fair	Poor	Good	Fair	Poor
Grimstad	   1	  Good	Good	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor
I44A:	 	 		 			 		 	 	 	 
Newfolden	   75	  Good	Good	  Good	Good	  Fair	  Good	Poor	Poor	  Good	  Fair	Poor
		<u>.</u>	İ	<u>.</u>	į	į	į	İ	<u>.</u>	<u>.</u>	<u>.</u>	į .
Smiley	12 	Fair 	Good	Fair 	Fair	Fair	Fair	Good	Fair 	Fair 	Fair	Fair
	I	I	1	I	1	1	I	1	I	I	I	1

Table 19.--Wildlife Habitat--Continued

ļ		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for-
Map symbol and component name	Pct. of   map unit 	Grain and seed	  Grasses   and	Wild  herba-   ceous	   Hard-   wood	  Conif-   erous	  Shrubs	  Wetland  plants	  Shallow   water	Open-   land   wild-	Wood-   land   wild-	Wetland   wild-   life
			legumes			plants	<u> </u>	L	areas	life	life	
I44A: Boash	     8	    Fair	    Fair	    Fair	    Fair	    Poor	    Poor	    Good	Good	    Fair	    Fair	    Good
Linveldt	   4	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	Poor	  Fair	  Fair	  Poor
Hapludolls	   1 	  Good 	  Good 	  Good 	  Good 	  Good 	  Fair 	  Poor 	  Very   poor	  Good 	  Good 	  Very   poor
I45A: Northwood	     75 	    Very   poor	    Very   poor	    Poor 	    Poor 	    Poor 	    Poor 	    Good 	Good	    Very   poor	    Poor 	    Good 
Hamre	10	  Poor	  Fair	  Poor	  Poor	  Poor	  Poor	  Good	Good	  Poor	  Poor	  Good
Berner	   5 	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	Good	  Poor 	  Poor 	  Good 
Kratka	   5	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
Strandquist	   3	  Fair 	  Fair	  Fair 	  Fair	  Poor	  Fair	  Good 	  Good	  Good 	  Fair	  Good 
Roliss	   2	  Fair 	  Good 	  Fair	  Fair	  Fair	  Fair	  Good 	Fair	  Good 	  Fair	  Fair
I46A:	     85	   	   	   	   	   	   	   		   	   	   
Udipsamments	   10 	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Very   poor	  Very   poor	  Poor 	  Poor 	  Very   poor
Radium	   2 	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Poor 	Very poor	  Fair 	  Fair 	  Very   poor
Maddock	   1 	  Fair 	  Good 	  Good 	  Fair 	  Fair 	  Fair 	  Poor 	  Very   poor	  Fair 	  Fair 	  Very   poor
Marquette	   1 	  Poor 	  Fair 	  Fair 	  Fair 	  Fair 	  Poor 	  Very   poor	  Very   poor	  Poor 	  Poor 	  Very   poor
Sandberg	   1 	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Very   poor	  Very   poor	  Fair 	  Fair 	  Very   poor
I47A: Poppleton	     75	    Poor	    Fair	    Fair	    Fair	    Fair	    Fair	    Poor	Poor	    Fair	    Fair	    Poor
Flaming	   12	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	Poor	  Fair	  Fair	  Poor

Table 19.--Wildlife Habitat--Continued

		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for-
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	•	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants			areas	life	life	
[47A:	 	 		 	 		 	 	 	 	 	 
Garborg	5	Poor	Fair	Good	Fair	Fair	Fair	Fair	Poor	Fair	Fair	Poor
Hamar	   3	  Poor	  Good	  Fair	Good	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair
Radium	   2 	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Poor 	  Very   poor	  Fair 	  Fair 	Very  poor
Ulen	   2	  Fair	  Good	  Good	  Fair	Poor	  Fair	Poor	  Poor	  Fair	  Fair	Poor
Maddock	1	  Fair 	  Good 	  Good 	  Fair 	  Fair 	  Fair 	  Poor 	  Very   poor	  Fair 	  Fair 	  Very   poor
I48A: Radium	     75 	    Poor 	    Fair 	    Good 	    Fair 	    Fair 	    Fair 	    Poor 	    Very   poor	    Fair 	    Fair 	    Very   poor
Sandberg	   7 	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Very   poor	  Very   poor	  Fair 	  Fair 	  Very   poor
Oylen	   5	  Fair	  Good	  Good 	Good	Good	  Fair	  Poor	  Poor	  Good 	Good	  Poor
Flaming	   4	  Fair	  Fair	  Good 	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor
Garborg	   3	  Poor	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor
Hangaard	   3	  Poor	  Fair	  Fair	  Fair	Poor	  Poor	Good	  Good	  Fair	  Fair	  Good
Hamar	   2	  Poor	  Good	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair
Poppleton	1	  Poor	  Fair	  Fair	  Fair	  Fair	  Fair	Poor	  Poor	  Fair	  Fair	  Poor
I50A: Reiner	     70	    Good	    Good	    Good	    Good	    Good	    Good	    Poor	    Poor	    Fair	    Fair	    Poor
Smiley	12	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	Good	  Fair	  Fair	  Fair	  Fair
Reiner, very cobbly	   7	  Good	  Good	  Good	  Good	  Good	  Good	  Poor	  Poor	  Fair	  Fair	  Poor
Linveldt	   5	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Fair	  Fair	  Poor
Eckvoll	3	  Fair	  Fair	  Good	  Good	  Good	  Fair	  Poor	  Poor	  Fair	  Good	  Poor
Kratka	   3	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair

I		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants			areas	life	life	
I51A:				ļ	!	!	ļ					ļ.
Reiner	65	Good	Good	Good	Good	Good	Good	Poor	Poor	Fair	Fair	Poor
Smiley	9	  Fair 	  Good 	  Fair 	  Fair	  Fair	  Fair	  Good 	  Fair 	  Fair 	  Fair	  Fair
Reiner fine sandy loam	8	  Good 	  Good 	  Good 	  Good 	  Good 	  Good 	  Poor	  Poor 	  Fair 	  Fair	  Poor
Linveldt	7	  Fair 	  Fair 	  Fair 	  Fair	  Fair	  Fair	  Poor 	  Poor 	  Fair 	  Fair	  Poor
Kratka	5	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Fair 
Eckvoll	3	  Fair 	  Fair 	  Good 	Good 	Good	  Fair	  Poor 	  Poor 	  Fair 	Good	Poor
Reiner, very cobbly	3	I  Good 	  Good 	  Good 	Good 	Good 	Good	  Poor 	  Poor 	  Fair 	  Fair 	  Poor 
I52A:	<u> </u> 	i i	i	i	ŀ	i	i	i	l İ	! 	i	i
Reis	55	  Fair	  Fair	  Fair	Poor	Fair	Fair	Good	  Good	  Fair	Poor	Good
		İ		İ	i	İ	İ				i	
Clearwater	30	Poor	Poor	Fair	Fair	Fair	Poor	Good	Good	Good	Fair	Good
Clearwater, very cobbly	5	  Poor	  Poor	  Fair	  Fair	  Fair	  Poor	  Good	  Good	  Good	  Fair	  Good
Clearwater, depressional	3	  Poor	  Poor	  Poor	  Poor	  Poor	  Poor	  Good	  Good	  Poor	  Poor	  Good
Espelie	3	  Fair 	  Good 	  Fair 	  Fair	  Fair 	  Fair 	  Good 	  Good 	  Fair 	  Fair	  Good 
Hattie	l   3	  Fair	  Good	  Fair	  Fair	  Good	  Fair	  Very	  Very	  Fair	  Good	  Very
		 		 				poor	poor	 		poor
i	İ	j	į	j	İ	į	į	į -	i -	į	į	į -
Wyandotte	1	Fair	Fair	Fair	Fair	Poor	Fair	Good	Good	Fair	Fair	Good
				ļ	ļ	ļ	ļ				ļ	ļ
I53A:		 		 	les des	 	 		   == - 4		l mades	 
Roliss	75	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair 	Good	Fair	Fair
Kratka	8	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	Fair	  Fair
i		İ	İ	İ	i	i	i	i	İ	İ	i	į
Roliss, very cobbly	7	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Good	Fair	Fair
		<u> </u>	!	!				!		!		ļ
Kittson	5	Good	Good	Good	Fair	Fair	Good	Poor	Poor	Good	Fair	Poor
Roliss, depressional	l   3	  Poor	  Poor	  Fair	Poor	  Poor	  Poor	  Good	l  Good	  Poor	Poor	  Good
Smiley	2	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair

Table 19.--Wildlife Habitat--Continued

Table 19.--Wildlife Habitat--Continued

I		l		Potenti	al for n	abitat e	rements			Potenti	aı as na	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>	<u> </u>	areas	life	life	ļ
   I54A:		 		 					 	 	 	
Roliss, depressional	80	  Poor	Poor	  Fair	Poor	Poor	Poor	Good	  Good 	  Poor	Poor	Good
Roliss	12	  Fair 	Good	  Fair 	  Fair	  Fair	  Fair	Good	  Fair 	  Good 	  Fair	  Fair
Hamre	5	  Poor	  Fair	  Poor	Poor	Poor	  Poor	  Good	  Good 	  Poor	  Poor	  Good
Kratka	3	  Fair 	  Good	  Fair 	  Fair	  Fair	  Fair	  Good	  Fair	  Fair 	  Fair	  Fair
I55A:		 	l I	 	l I		 	 	 	 	 	 
Rosewood	75	Fair	Fair	Fair	Fair	Fair	Fair	Good	Good 	  Fair 	Fair	Good
Ulen	10	  Fair 	Good	  Good 	Fair	Poor	Fair	Poor	Poor	  Fair 	  Fair	Poor
Hamar	6	  Poor 	Good	  Fair 	Good	  Fair	  Fair	Fair	  Fair 	  Fair 	  Fair	  Fair
Rosewood, depressional	3	  Very   poor	Very   poor	  Poor 	Poor	Poor	Poor	Good 	  Good 	  Poor 	  Poor 	Good
Syrene	3	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	Good	  Good 	  Fair	  Fair	  Good
Karlsruhe	1	  Fair	Good	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Good	  Fair	Poor
Strathcona	1	  Fair	Good	  Fair	  Fair	  Fair	  Fair	Good	  Good 	  Fair	  Fair	  Good
Thiefriver	1	  Fair	Good	  Fair	  Fair	  Fair	  Fair	Good	  Good	  Fair	  Fair	Good
   I57B:		l I		 			 	l I	l I	 	 	 
Sandberg	50	Poor	Fair	Good	Fair	Fair	Fair	Very	Very	Fair	Fair	Very
ļ								poor	poor			poor
Radium	25	  Poor 	  Fair	  Good 	  Fair	  Fair	  Fair	  Poor	  Very   poor	  Fair 	  Fair 	  Very   poor
		! 	i	 	i	1		İ	1001	 		10001
Sioux	8	Very   poor	Very   poor	Poor	Poor	Very   poor	Poor	Very   poor	Very   poor	Very   poor	Very   poor	Very   poor
   Oylen	7	  Good	  Good	  Good	  Good	  Good	  Fair	  Poor	  Poor	  Good	  Good	  Poor
  Flaming	5	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor
Garborg	5	  Poor	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor

Table 19.--Wildlife Habitat--Continued

		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol and component name	Pct. of map unit	Grain and seed	  Grasses   and	Wild  herba-   ceous	   Hard-   wood	  Conif-   erous	  Shrubs 	  Wetland  plants	  Shallow   water	Open-   land   wild-	Wood-   land   wild-	Wetland   wild-   life
		crops	legumes	plants	trees	plants			areas	life	life	
I58A: Seelyeville	     90 	    Very   poor	    Fair 	    Poor 	    Poor 	    Poor 	    Poor 	    Good 	    Good 	    Good 	    Poor 	    Good 
Cathro	3	  Poor	Fair	  Poor	Poor	Poor	Poor	Good	  Good	Poor	Poor	Good
Dora	   3 	  Very   poor	  Very   poor	  Very   poor	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Very   poor	  Poor 	  Good 
Markey	3	  Very   poor	Very   poor	  Poor 	Poor	  Poor 	Poor	  Good 	  Good 	  Poor 	Poor	  Good 
Berner	   1 	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Poor 	  Poor 	  Good 
I59A:		 		 			 	 	 	 		 
Smiley	65	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
Smiley, very cobbly	   10 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Fair 
Kratka	   9	  Fair	Good	  Fair	Fair	Fair	  Fair	Good	  Fair	  Fair	Fair	  Fair
Roliss	   5	  Fair	Good	  Fair	  Fair	Fair	  Fair	Good	  Fair	  Good	  Fair	  Fair
Reiner	   4	  Good	Good	  Good	Good	Good	Good	Poor	  Poor	  Fair	  Fair	  Poor
Linveldt	   3	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	Poor	  Poor	  Fair	  Fair	  Poor
Smiley, depressional	   3	  Poor	Poor	  Fair	Poor	Poor	Poor	Good	  Poor	  Poor	Poor	  Good
Strandquist	1	  Fair	  Fair	  Fair	  Fair	Poor	  Fair	  Good	  Good	  Good	  Fair	  Good
I60A: Smiley, depressional	     80	    Poor	    Poor	    Fair	    Poor	Poor	    Poor	    Good	    Poor	    Poor	    Poor	    Good
Smiley	   10	  Fair	Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
Hamre	5	  Poor	  Fair	  Poor	Poor	Poor	Poor	  Good	  Good	  Poor	Poor	  Good
Kratka	   5	  Fair	Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
I61A: Strandquist	     70	    Fair	    Fair	    Fair	    Fair	Poor	    Fair	    Good	    Good	    Good	    Fair	    Good
Mavie	   8	  Fair 	  Fair	  Fair 	  Fair	  Poor	  Fair 	  Good	  Good 	  Fair 	  Fair	  Good

Table 19.--Wildlife Habitat--Continued

				Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for-
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants			areas	life	life	
				!	!					ļ	!	!
[61A:			1		!							1
Roliss	7	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Good	Fair	Fair
   Kratka	5	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
Foxhome	4	  Good	  Good	  Good	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	Poor
Hangaard	3	  Poor	  Fair	  Fair	  Fair	Poor	Poor	  Good	  Good	  Fair	  Fair	  Good
Northwood	3	  Very   poor	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Very   poor	  Poor 	  Good 
   [62A:			 	 			 	 	 	 		 
Syrene	70	Fair	Fair	  Fair	Fair	Poor	Fair	Good	Good	Fair	Fair	Good
Rosewood	11	  Fair 	Fair	  Fair 	  Fair	  Fair	  Fair	Good	  Good 	  Fair 	  Fair	Good
Hangaard	5	  Poor	  Fair	  Fair	  Fair	Poor	  Poor	  Good	  Good 	  Fair 	  Fair	Good
Karlsruhe	4	  Fair 	  Good	  Good 	  Fair	Fair	  Fair	  Fair	  Poor	  Good 	  Fair	  Poor
Deerwood	3	  Very   poor	Very   poor	  Poor 	Poor	Poor	Poor	  Good 	  Good 	  Very   poor	Poor	  Good 
Hamar	3	  Poor	  Good	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair	  Fair
Strandquist	2	  Fair	  Fair	  Fair	  Fair	Poor	  Fair	  Good	  Good 	  Good 	  Fair	  Good
Radium	1	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	Fair	  Poor 	  Very   poor	  Fair 	  Fair 	Very   poor
Wyandotte	1	  Fair	  Fair	  Fair	  Fair	Poor	  Fair	  Good	  Good	  Fair	  Fair	  Good
[63A:		 	 	l I	 		 	 	 	l I		 
Thiefriver	70	  Fair	Good	  Fair	Fair	Fair	Fair	Good	  Good	  Fair	Fair	Good
Espelie	10	  Fair 	  Good	  Fair 	  Fair	  Fair	  Fair	  Good	  Good 	  Fair 	  Fair	  Good
Foxlake	7	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Good	  Fair	  Fair
Huot	5	  Good	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Fair
Clearwater, depressional	3	  Poor	  Poor	  Poor	  Poor	  Poor	  Poor	  Good	  Good	  Poor	  Poor	  Good

Table 19.--Wildlife Habitat--Continued

		l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol and component name	Pct. of map unit	Grain   and   seed	  Grasses   and	Wild  herba-   ceous	   Hard-   wood	  Conif-   erous	  Shrubs 	  Wetland  plants	  Shallow   water	Open-   land   wild-	Wood-   land   wild-	Wetland   wild-   life
Componente name			legumes			plants	<u> </u>		areas	life	life	
   I63A:		 		 					 	 		
Rosewood	3	Fair	Fair	Fair	Fair	Fair	Fair	Good	  Good	Fair	Fair	Good
Ulen	1	  Fair	  Good	  Good	  Fair	  Poor	  Fair	  Poor	  Poor	  Fair	  Fair	  Poor
Wyandotte	1	  Fair 	  Fair 	  Fair 	  Fair 	  Poor 	  Fair 	  Good 	  Good 	  Fair 	  Fair 	  Good 
I64A:		İ	İ	İ	İ	İ		İ	İ	İ	İ	İ
Ulen	70	Fair 	Good	Good 	Fair	Poor	Fair	Poor	Poor	Fair 	Fair	Poor
Rosewood	10	  Fair 	  Fair 	  Fair 	  Fair	  Fair 	  Fair 	  Good 	  Good 	  Fair 	  Fair	Good
Flaming	8	  Fair 	  Fair	  Good 	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair 	  Fair	Poor
Karlsruhe	5	  Fair 	  Good 	  Good 	  Fair	  Fair	  Fair	  Fair	  Poor	  Good 	  Fair	Poor
Radium	3	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Poor 	  Very   poor	  Fair 	  Fair 	Very   poor
Strathcona	2	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good	  Fair	  Fair	  Good
Thiefriver	2	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good	  Fair	  Fair	Good
I65A:		 	 	 	 	 	 	 	 	 	 	 
Ulen	70	Fair 	Good	Good 	Fair	Poor	Fair 	Poor	Poor	Fair 	Fair 	Poor
Rosewood	10	  Fair 	  Fair	  Fair 	Fair	  Fair	  Fair	Good	  Good 	  Fair 	  Fair	Good
Flaming	6	  Fair 	  Fair	  Good 	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair 	  Fair	Poor
Poppleton	4	  Poor	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Fair	  Fair	Poor
Karlsruhe	3	  Fair	  Good	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Good	  Fair	Poor
Radium	3	  Poor 	  Fair 	  Good 	  Fair 	  Fair 	  Fair 	  Poor 	  Very   poor	  Fair 	  Fair 	  Very   poor
Strathcona	2	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good	  Fair	  Fair	  Good
Thiefriver	2	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good	  Fair	  Fair	  Good
   I66A:		 	 	 		 	 	 	 	 	 	 
Vallers	75	  Fair	Fair	Fair	Fair	Poor	Fair	Good	Good	Good	Fair	Good
· · · · · · · · · · · · · · · · · · ·	ı	I	I .	I	I	T .	1	I .	I	I	T .	I

Table 19.--Wildlife Habitat--Continued

!	l	l		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for-
Map symbol and component name	Pct. of map unit	seed	Grasses and	ceous	wood	  Conif-   erous	  Shrubs 	  Wetland  plants	water	wild-	Wood-   land   wild-	Wetland   wild-   life
	<u> </u>	crops 	legumes	plants 	trees	plants	l	l	areas	life 	life	l
I66A: Hamerly	     6	    Good	    Good	    Good	    Good	    Good	    Fair	    Poor	    Poor	    Good	    Good	    Poor
Grimstad	   3	  Good	  Good	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Fair	  Poor
Mavie	   3	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Good	  Good	  Fair	  Fair	  Good
Roliss, depressional	   3	  Poor	  Poor	  Fair	  Poor	  Poor	  Poor	  Good	  Good	  Poor	  Poor	  Good
Strathcona	   3	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Good	  Fair	  Fair	  Good
I67A: Wheatville	     70	    Good	    Good	    Good	    Fair	    Poor	    Fair	    Poor	    Poor	    Good	    Fair	    Poor
Augsburg	13	  Fair	  Good	  Fair	  Fair	  Poor	  Fair	  Fair	  Fair	  Good	  Fair	  Fair
Glyndon	   8	  Good	  Good	  Good	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Poor
Foxlake	   5	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Good	  Fair	  Fair
Hilaire	   2	  Fair	  Good	  Good	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Fair	  Poor
Ulen	   2	  Fair	  Good	  Good	  Fair	Poor	  Fair	  Poor	  Poor	  Fair	  Fair	  Poor
I69A: Wyandotte	     65	    Fair	    Fair	    Fair	    Fair	    Poor	    Fair	    Good	    Good	    Fair	    Fair	    Good
Foxlake	   10	  Fair	  Fair	  Fair	  Fair	  Fair	  Poor	  Poor	  Good 	  Good 	  Fair	  Fair
Espelie	   8	  Fair	  Good 	  Fair	  Fair	  Fair	  Fair	  Good	  Good 	  Fair	  Fair	  Good
Clearwater, depressional	   5	  Poor	  Poor	  Poor	  Poor	  Poor	  Poor	  Good 	  Good 	  Poor	  Poor	  Good 
Thiefriver	   5	  Fair	  Good 	  Fair	  Fair	  Fair	  Fair	  Good	  Good 	  Fair	  Fair	  Good
Karlsruhe	   4	  Fair	  Good 	  Good 	  Fair	  Fair	  Fair	  Fair	  Poor	  Good 	  Fair	  Poor
Syrene	   3	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair	  Good	  Good	  Fair	  Fair	  Good
I70A: Strathcona	     70	    Fair	    Good	    Fair	    Fair	    Fair	    Fair	    Good	    Good	    Fair	    Fair	    Good
Kratka	10	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
Roliss	   6	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Good	  Fair	  Fair

Table 19.--Wildlife Habitat--Continued

I		l		Potenti	al for h	abitat e	Iements			Potenti	aı as na	bitat for
Map symbol	Pct. of	Grain		Wild						Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>	<u> </u>	areas	life	life	<u> </u>
.70A:		 		 					 	 		
Grimstad	5	l  Good	  Good	  Fair	  Fair	  Fair	  Fair	  Fair	l   Poor	  Fair	  Fair	Poor
GIIMSCAU	, ,	<del>G</del> OOG	l Good	Faii 					FOOI	Fair		
Mavie	3	Fair	Fair	Fair	Fair	Poor	Fair	Good	Good	  Fair	Fair	Good
Rosewood	3	  Fair	Fair	  Fair	Fair	Fair	Fair	Good	  Good 	  Fair	Fair	Good
Strathcona, depressional	3	  Poor	Poor	  Poor	Poor	Poor	Poor	Good	  Good 	  Poor	Poor	Good
:71A:		 	 	 				 	 	 		 
Berner, ponded	45	Very	Very	Very	Very	Very	Very	Good	Good	Very	Very	Good
· ·		poor	poor	poor	poor	poor	poor	İ	İ	poor	poor	İ
i		İ	İ	İ	İ	İ	İ	İ		İ	İ	İ
Cathro, ponded	45	Very	Very	Very	Very	Very	Very	Good	Good	Very	Very	Good
Į.		poor	poor	poor	poor	poor	poor	!		poor	poor	[
Hamre	2	  Poor	  Fair	  Poor	  Poor	  Poor	Poor	  Good	  Good	  Poor	  Poor	  Good
	_											
Kratka	2	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
Northwood	2	  Very	l Women	  Poor	Poor	  Deem	Poor	  Good	  Good	  Very	  Poor	  Good
NOTENWOOD		very   poor	Very   poor	POOT	POOL	Poor	POOT	l Good	l Good	very   poor	POOT	l Good
i		<u>1</u> 0001	l boot	! !	1				 	l boor		
Roliss	2	  Fair	Good	  Fair	Fair	Fair	Fair	Good	  Fair	  Good	Fair	Fair
i		į	İ	į	İ	İ	İ	İ	İ	İ	İ	İ
Seelyeville, ponded	2	Very	Very	Very	Very	Very	Very	Good	Good	Very	Very	Good
		poor	poor	poor	poor	poor	poor			poor	poor	
[72A:		 	l i	l I			l I	l i	l İ	 		 
Pelan	65	Poor	Fair	  Fair	Fair	Fair	Fair	Poor	l Poor	  Fair	Fair	Poor
Smiley	10	Fair	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair
I												
Linveldt	8	Fair	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Fair	Fair	Poor
   Kratka	5	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair	  Fair	  Fair	  Fair
KI deka	J											
Strandquist	5	Fair	Fair	Fair	Fair	Poor	Fair	Good	Good	Good	Fair	Good
İ				l								
Reiner	4	Good	Good	Good	Good	Good	Good	Poor	Poor	Fair	Fair	Poor
Eckvoll	3	  Fair	  Fair	  Good	  Good	  Good	  Fair	  Poor	  Poor	  Fair	  Good	  Poor
	3	Lagara	Learn	1 3000	1 3000	Joou	Larr	12001	1.001	1.077	Joou	12001

Table 19.--Wildlife Habitat--Continued

		I		Potenti	al for h	abitat e	lements			Potenti	al as ha	bitat for
Map symbol	Pct. of	Grain	I	Wild	I	I	1		I	Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants	<u> </u>	<u> </u>	areas	life	life	<u> </u>
[73A:		 	l I	 		l I	 	l I	 	l I	 	 
Boash	75	Fair	Fair	Fair	Fair	Poor	Poor	Good	Good	Fair	Fair	Good
Clearwater	8	  Poor	Poor	  Fair	  Fair	  Fair	  Poor	Good	  Good 	  Good 	  Fair	  Good
Roliss	8	  Fair	  Good	  Fair	  Fair	  Fair	  Fair	  Good	  Fair 	  Good 	  Fair	  Fair
Clearwater, depressional	5	  Poor	Poor	  Poor	Poor	  Poor	  Poor	  Good	  Good 	  Poor	  Poor	  Good
Kittson	2	  Good 	  Good	  Good 	  Fair	  Fair	  Good	  Poor	  Poor	  Good 	  Fair	  Poor
Newfolden	2	  Good 	  Good	  Good 	  Good	  Fair	  Good	  Poor	  Poor	  Good 	  Fair	  Poor
I74A:		 	 	 		 	 	 	 	 	 	 
Urban land	65		j	į	į	j	j	j	j	i	j	j
Endoaquents	35	 		ļ					 	 		
175A:		 		 					 	 		
Radium	40	Poor	Fair	Good	Fair	Fair 	Fair 	Poor	Very   poor	Fair 	Fair 	Very   poor
Sandberg	20	  Poor	  Fair	  Good	  Fair	  Fair	  Fair	  Very	  Very	  Fair	  Fair	  Very
		 	1	 	 	1		poor	poor	 		poor
Garborg	15	Poor	Fair	Good I	Fair	Fair	Fair	Fair	Poor	Fair	Fair	Poor
Oylen	10	  Good 	Good	Good	Good	Good	Fair	Poor	  Poor	  Good 	Good	Poor
Flaming	5	  Fair	  Fair	  Good 	  Fair	  Fair	  Fair	  Fair	  Poor	  Fair 	  Fair	  Poor
Karlsruhe	3	  Fair	Good	  Good	  Fair	  Fair	  Fair	  Fair	  Poor	  Good 	  Fair	  Poor
Venlo	3	  Very   poor	  Poor 	  Poor 	  Poor 	  Poor 	  Poor 	  Good 	  Good 	  Poor 	  Poor 	  Good 
Hangaard	2	  Poor	  Fair	  Fair	  Fair	  Poor	  Poor	  Good	  Good 	  Fair 	  Fair	  Good
Sioux	2	  Very   poor	  Very   poor	  Poor 	  Poor	  Very   poor	  Poor	  Very   poor	  Very   poor	  Very   poor	  Very   poor	  Very   poor

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rve)
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				Potentia	al for	habitat	elements			Potentia	al as hal	oitat for
Map symbol	Pct. of	Grain	I	Wild	I	1		1	I	Open-	Wood-	Wetland
and	map unit	and	Grasses	herba-	Hard-	Conif-	Shrubs	Wetland	Shallow	land	land	wild-
component name		seed	and	ceous	wood	erous		plants	water	wild-	wild-	life
		crops	legumes	plants	trees	plants			areas	life	life	
												l
M-W.												
Miscellaneous water												
			I	I	I	1	1	1	I	1		I

W. Water Table 19.--Wildlife Habitat--Continued

## Table 20a.--Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	al
	unit 	Rating class and				Rating class and	Value
	<u> </u>	limiting features	<u> </u>	limiting features		limiting features	
B109A:		 					!
Bowstring	   45	  Very limited:		  Very limited:	 	  Very limited:	
BOWSCI ING	43	Ponding	1	! -	1	-	1
	1	!	1.00	· -	1.00	_	11.00
	¦	Depth to	1.00	· -	1.00	_	11.00
	i	saturated zone		saturated zone		saturated zone	1
	i	Content of	1.00	Content of	1.00	Content of	1.00
	į	organic matter		organic matter		organic matter	
Fluvaquents	   40	  Very limited:	l I	  Very limited:	l I	  Very limited:	
•	i	Ponding	1.00		1.00	-	1.00
	i	!	1.00	· -	1.00	_	1.00
	i	Depth to	1.00	· -	1.00	_	1.00
	į	saturated zone		saturated zone		saturated zone	
Hapludalfs	   5	  Very limited:	l I	  Very limited:	l I	  Very limited:	
_	i	Flooding	1.00	! -	1.00	Flooding	1.00
	i	Slope	1.00	Slope	1.00	Slope	1.00
	İ	Shrink-swell	0.50	Depth to	1.00	Shrink-swell	0.50
	İ	Depth to	0.01	saturated zone	İ	Depth to	0.01
	ĺ	saturated zone	İ		İ	saturated zone	İ
Seelyeville	   5	  Very limited:	 	  Very limited:	 	  Very limited:	
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
	İ	Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Content of	1.00	Content of	1.00	Content of	1.00
		organic matter	 	organic matter		organic matter	
Water	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	
B200A:	į		į		į		į
Garnes	70	!		Very limited:	:	Somewhat limited:	1
	!	Depth to	0.01	! · · · · · · · · · · · · · · · · · · ·	1.00	-	0.01
	 	saturated zone	 	saturated zone	 	saturated zone	
Chilgren	13	Very limited:	ĺ	Very limited:	ĺ	Very limited:	ĺ
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Eckvoll	   5	  Somewhat limited:		  Very limited:		  Somewhat limited:	
		Depth to	0.01	Depth to	1.00	Depth to	0.01
		saturated zone	 	saturated zone		saturated zone	
Garnes, very stony	5	Somewhat limited:		  Very limited:		  Somewhat limited:	1
_		Depth to	1	:	1.00	Depth to	0.01
		saturated zone		saturated zone		saturated zone	
	l l 4	  Very limited:	 	  Very limited:		  Very limited:	1
Grygla							
Grygla	i -	Depth to	1.00	Depth to	1.00	Depth to	1.00
Grygla	-	Depth to saturated zone	:	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with   basements 		Small commercial   buildings 		
	   			Rating class and   limiting features	•		Value	
B200A: Pelan	     3   	    Somewhat limited:   Depth to   saturated zone		    Very limited:   Depth to   saturated zone	•	  Somewhat limited:   Depth to  saturated zone	      0.01	
B201A: Chilgren	     75   	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	
Garnes	   9 	  Somewhat limited:   Depth to   saturated zone	0.01		1.00	  Somewhat limited:   Depth to   saturated zone	    0.01	
Grygla	   5   	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	
Grygla, depressional	   5   	Ponding	1.00	Ponding	1.00	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00	
Hamre	   5   	_	1.00	-	1.00	!	  1.00  1.00	
Pelan	   1   	!	0.01	  Very limited:   Depth to   saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 	
B202A: Cathro	     80   	Ponding		Ponding	1.00	  Very limited:   Ponding   Depth to   saturated zone	      1.00  1.00	
Hamre	   8   	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00	•	    1.00  1.00	•	    1.00  1.00	
Chilgren	   3   	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	
Northwood	   3   	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00		į	  Very limited:   Ponding	    1.00  1.00	
Berner	   2         	  Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00     	· -	  1.00  1.00    1.00	

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with   basements 		Small commercia   buildings 	al
	   			Rating class and   limiting features		Rating class and limiting features	Value
	ļ		!				!
B202A: Grygla	   2	  Very limited:	 	  Very limited:	 	  Very limited:	
		Depth to	1.00	:	1.00		1.00
	 	saturated zone	1.00	1	1.00	saturated zone	11.00
Seelyeville	   2	  Very limited:		  Very limited:	 	  Very limited:	
	ĺ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	:	1.00	! -	1.00
	 	saturated zone Content of	1	saturated zone Content of	1	saturated zone Content of	1
		organic matter		organic matter		organic matter	
B203A:	 	 		 	 	 	
Northwood	75	Very limited:		Very limited:		Very limited:	İ
		Ponding	1.00		1.00		1.00
		Depth to	1.00	:	1.00	! -	1.00
	 	saturated zone		saturated zone	 	saturated zone	
Hamre	10	! -		Very limited:	:	Very limited:	1
		Ponding	1.00	!	1.00		1.00
	 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
Grygla	7	  Very limited:		  Very limited:		  Very limited:	
01/914	, <i>,</i>	Depth to	1.00		1.00		1.00
	į	saturated zone	į	saturated zone	į	saturated zone	į
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Berner	5	! -	:		:	Very limited:	
		Ponding	11.00		11.00		11.00
	l I	Depth to saturated zone	1.00	Depth to saturated zone	1	Depth to saturated zone	1.00
	i	Content of	1.00	1	i	Content of	1.00
	į	organic matter	į	į I	į	organic matter	į
Chilgren	   3	  Very limited:		  Very limited:		  Very limited:	ŀ
		Depth to	1.00	:	1.00		1.00
	 	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
B204A:		 	İ		Ì	 	Ì
Roliss	   75	  Very limited:		  Very limited:		  Very limited:	i
	ĺ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding 	11.00	Ponding 	1.00 	Ponding	1.00
Grygla	8	Very limited:		Very limited:		Very limited:	İ
		Depth to	1.00	Depth to		Depth to	1.00
	 	saturated zone Ponding	1.00	1	1.00	saturated zone Ponding	1.00
Chilgren		    Very limited:		  Very limited:		    Very limited:	İ
Chilgren	l s	Depth to	,	Depth to	•	Depth to	1
	i	saturated zone		saturated zone		saturated zone	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Garnes	   5	  Somewhat limited:		  Very limited:		  Somewhat limited:	
	ļ	Depth to	0.01	:	1.00	Depth to	0.01
	i .	saturated zone	1	saturated zone	1	saturated zone	1

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	out	Dwellings with basements	Small commercial buildings		
	   	Rating class and   limiting features		Rating class and limiting features	•	Rating class and limiting features	Value
B204A:	   	   		   		   	İ
Roliss, depressional	l   5	  Very limited:	i	  Very limited:	i	  Very limited:	i
· -	i	Ponding	1.00		1.00		1.00
	ļ	Depth to	1.00		1.00		1.00
	 	saturated zone	l I	saturated zone		saturated zone	
Hamre	2	  Very limited:	i	  Very limited:	i	  Very limited:	i
		Ponding	1.00		1.00		1.00
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	sacuraced zone		saturated zone		saturated zone	i
B205A:	į .		į		į	į	į
Berner	80	! -		Very limited:	:	Very limited:	
	 	Ponding Depth to	1.00  1.00		1.00  1.00		1.00
	l I	saturated zone	1	saturated zone	1	saturated zone	1
	i	Content of	1.00	!	i	Content of	1.00
	i	organic matter		İ	į	organic matter	i
Northwood	   7	  Very limited:		  Very limited:		  Very limited:	
NOT CHWOOD	¦ ′	Ponding	11.00	! - T	•	Ponding	11.00
	i	Depth to	1.00		1.00	!	1.00
	į	saturated zone	į	saturated zone	į	saturated zone	į
Grygla	   5	  Very limited:	 	  Very limited:		  Very limited:	l I
- 15	i	Depth to	1.00	! -	1.00	! -	1.00
	į	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Cathro	   3	  Very limited:		  Very limited:		  Very limited:	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
	ļ	Depth to	1.00	! -	1.00	! -	1.00
	 	saturated zone	 	saturated zone		saturated zone	l I
Hamre	3	  Very limited:		  Very limited:	i	  Very limited:	i
	ļ	Ponding	1.00		1.00	!	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	saturated zone		saturated zone		saturated zone	
Seelyeville	2	Very limited:		Very limited:	•	Very limited:	į
		Ponding		Ponding	:	Ponding	11.00
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Content of	11.00	Content of	11.00	Content of	11.00
	į	organic matter		organic matter		organic matter	
B206A:	 	l I		l I		 	
Hamre	80	  Very limited:		  Very limited:		  Very limited:	i
	ĺ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	! -	1.00	! -	1.00
	 	saturated zone		saturated zone		saturated zone	
Chilgren	8	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00	! -	1.00	! -	1.00
	ļ	saturated zone		saturated zone		saturated zone	
	 	Ponding 	1.00 	Ponding 	1.00 	Ponding 	1.00
Northwood	5	  Very limited:	İ	  Very limited:	İ	Very limited:	i
	ļ	Ponding	1.00	!	1.00		1.00
	ļ	Depth to	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		saturated zone					

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with basements		Small commercia   buildings 	1
		Rating class and		   Rating class and   limiting features	•		
B206A:							
Cathro	   3   	Ponding Depth to	1.00  1.00	Ponding Depth to	1.00	  Very limited:   Ponding   Depth to	  1.00  1.00
	 	saturated zone	l i	saturated zone		saturated zone	
Grygla	   2   	saturated zone	1.00	!	1.00	saturated zone	  1.00    1.00
	i	Fonding		Fonding		ronaring	
Roliss	2   	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	 			Policing			
B207A: Pelan	   70   	•	0.01	:	1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Chilgren	   10 	•	1.00	! -	1.00	  Very limited:   Depth to   saturated zone	    1.00
		!	:			Ponding	1.00
Garnes	   10   	  Somewhat limited:   Depth to   saturated zone	0.01	  Very limited:   Depth to   saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Eckvoll	   5 	  Somewhat limited:   Depth to   saturated zone	0.01	•	1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Grygla	:	saturated zone	1.00 	saturated zone	1.00 	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	! 	Foliding		Foliding		Foliding	
B208A: Grygla	   75   		    1.00 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Chilgren	   10   			  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	    1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Eckvoll	   5   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	1.00	Somewhat limited:   Depth to   saturated zone	0.01
Grygla, depressional	   5     	· -	    1.00  1.00	:	    1.00  1.00	:	  1.00  1.00

Table 20a.--Building Site Development--Continued

Map symbol and component name	Pct. of map unit	basements	ut	Dwellings with   basements 		Small commercial   buildings 		
	   	   Rating class and   limiting features	Value	Rating class and limiting features	Value	Rating class and   limiting features	Value	
B208A: Northwood	   5   1	!	      1.00  1.00	!	      1.00  1.00	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00	
B209A: Seelyeville	   90         		    1.00  1.00    1.00	Depth to saturated zone	    1.00  1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	    1.00  1.00    1.00	
Cathro	   3   	!	    1.00  1.00	!	 	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00	
Dora	   3       	  Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	  1.00  1.00      1.00	
Markey	   3       	   Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	  1.00  1.00    1.00	!	    1.00  1.00   		  1.00  1.00    1.00	
Berner	   1         	  Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	  1.00  1.00    1.00	!	    1.00  1.00   	Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	  1.00  1.00    1.00	
B210A: Eckvoll	   70 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00	  Somewhat limited:   Depth to   saturated zone	0.01	
Chilgren	   12     	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	
Grygla	   8   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00	
Garnes	   7   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone 	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 	

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with basements		Small commercia   buildings 	11
	   	'		Rating class and limiting features			Value
		İ	İ	İ	i		i
B210A: Pelan	   3 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
-011-					ļ		ļ
B211A: Berner, ponded	   45	  Very limited:	l I	  Very limited:	l I	  Very limited:	
berner, ponded	<del>1</del> 5	Ponding	11.00		1		11.00
	i	Depth to	1.00		1.00	!	1.00
	İ	saturated zone	İ	saturated zone	İ	saturated zone	į
		Content of	1.00			Content of	1.00
		organic matter	ļ		ļ	organic matter	ļ
Cathro, ponded	   45	  Verv limited:	l I	  Very limited:	l I	  Very limited:	 
cacingo, pondou		Ponding	1.00		1.00		1.00
	i	Depth to	1.00		1.00	Depth to	1.00
	ĺ	saturated zone	Ì	saturated zone	Ì	saturated zone	İ
60-13		 	ļ	 			!
Chilgren	<u>2</u> 	Very limited:   Depth to	1.00	Very limited:   Depth to	11.00	Very limited:   Depth to	11.00
	 	saturated zone	1	saturated zone	1	saturated zone	1
	i	Ponding	1.00		1.00		1.00
	İ	İ	į	İ		ĺ	İ
Grygla	2	Very limited:	:	Very limited:	:	Very limited:	
		Depth to	1.00		1.00		1.00
	l I	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1 1.00
	i						
Hamre	2	Very limited:		Very limited:		Very limited:	
		!	1.00	!	1.00	!	1.00
		Depth to	1.00	! -	1.00		1.00
	l I	saturated zone		saturated zone		saturated zone	1
Northwood	2	  Very limited:	i	  Very limited:	i	  Very limited:	i
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	! -	1.00	Depth to	1.00
	 	saturated zone		saturated zone		saturated zone	!
Seelyeville, ponded	   2	  Very limited:	i	  Very limited:	İ	  Very limited:	ŀ
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Content of organic matter	1.00	Content of organic matter	1.00	Content of organic matter	1.00
	 	Organic matter	i i	Organic matter	i i	Organic matter	i
I1A:	į	İ	İ	İ	İ	İ	İ
Augsburg	75			Very limited:		Very limited:	
		Depth to	1.00		1.00		1.00
	 	saturated zone	1 00	saturated zone	1 00	saturated zone	11 00
	! 	Ponding 	1.00 	Shrink-swell Ponding	1.00  1.00	Ponding 	1.00
	İ	İ	İ			İ	i
Borup	10	! -		Very limited:		Very limited:	
		Depth to	1.00	! -	1.00	<u> </u>	1.00
	 	saturated zone Ponding	  1.00	saturated zone Ponding	  1.00	saturated zone Ponding	1.00
	!	i ronarna	1 - 00	l roughing	1 - 00	l ronarna	1

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with   basements 		Small commercia   buildings 	11
	   		Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
				l			
I1A: Foxlake	   5 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00
	     		  1.00  1.00	saturated zone Shrink-swell Ponding	  1.00  1.00	saturated zone Shrink-swell Ponding	  1.00  1.00
	İ	İ	į	İ	İ	İ	į
Augsburg, depressional	   3 		    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00
	   		1.00		1.00	Depth to   saturated zone	1.00
Wheatville	   3 		1 1.00	! -	    1.00		1
	   	saturated zone   	   	saturated zone Shrink-swell	  1.00 	saturated zone   	   
Glyndon	2     	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  1.00 
Espelie	1	  Very limited:   Depth to	1.00	! -	1.00	! -	1.00
	   	!	  1.00  1.00	!	  1.00  1.00	saturated zone   Shrink-swell   Ponding	1.00
Hattie	   1   	Depth to	    1.00  0.20	saturated zone	1.00	Depth to	  1.00  0.20
	 	saturated zone	 	Shrink-swell 	1.00	saturated zone	
I3A: Berner	   80	  Very limited:	•	  Very limited:		  Very limited:	<u> </u>
	     	Depth to saturated zone Content of	1.00  1.00    1.00		1.00  1.00 	Depth to   saturated zone   Content of	1.00  1.00    1.00
Northwood	     7	organic matter    Very limited:	   	    Very limited:	   	organic matter    Very limited:	
102 0111000	,     	Ponding	1.00  1.00	Ponding	1.00	Ponding   Depth to   saturated zone	1.00
Kratka	   5 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
	   	saturated zone   Ponding 	1.00		1.00	Saturated zone   Ponding 	1.00
Hamre	3 		  1.00  1.00		  1.00  1.00	Very limited:   Ponding   Depth to	  1.00  1.00
	   	Depth to   saturated zone 	   	saturated zone	   	saturated zone	

Table 20a.--Building Site Development--Continued

	Pct. of	   Dwellings witho   basements	ut	Dwellings with basements	ı	Small commercia   buildings	1
_	map						
	unit 		Value	Rating class and	Value	Rating class and	Value
		limiting features		limiting features		limiting features	
T23							ļ
I3A: Strathcona	   3	  Very limited:		  Very limited:	I	  Very limited:	
20100110		Depth to	1.00	Depth to	1.00	Depth to	1.00
	ĺ	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Seelyeville	   2	  Very limited:		  Very limited:		  Very limited:	
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	1
		Content of	1.00	Content of	1.00	Content of	1.00
	l I	organic matter	 	organic matter		organic matter	
I4A:	į	İ	i	j	i	j	i
Berner	30	Very limited:	!	Very limited:	!	Very limited:	!
		Ponding	1.00	Ponding	1.00	Ponding	1.00
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Content of	1	Sacuraced Zone	1	Content of	1 1.00
	i	organic matter			i	organic matter	
	ĺ	İ	İ	İ	İ	İ	İ
Rosewood,		 	!	 	!		
depressional	30 	Very limited:   Ponding	1.00	Very limited:   Ponding	1.00	Very limited:   Ponding	11.00
	 	Depth to	11.00	Depth to	11.00	Depth to	11.00
	i	saturated zone	i	saturated zone	i	saturated zone	
	!	<u> </u>	İ	!	İ	!	ļ
Strathcona,						 	
depressional	30 	very limited:   Ponding	1	Very limited:   Ponding	1	Very limited:   Ponding	1
	 	Depth to	11.00	Depth to	11.00	Depth to	11.00
	į	saturated zone	i	saturated zone	i	saturated zone	i
_ ,	.		!		!		
Rosewood	4 	Very limited:   Depth to	1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	11.00
	 	saturated zone	1	saturated zone	1	saturated zone	1
	i	Ponding	1.00	Ponding	1.00	Ponding	1.00
					ļ		ļ
Deerwood	2 	Very limited:   Ponding	1.00	Very limited:   Ponding	11.00	Very limited:   Ponding	11.00
	l I	Depth to	11.00	Depth to	11.00	Depth to	11.00
	<u> </u>	saturated zone		saturated zone		saturated zone	
					ļ		ļ
Mavie	2	Very limited:   Depth to	1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	11.00
	l I	saturated zone	1	saturated zone	1	saturated zone	1
	<u> </u>	Ponding	1.00	Ponding	1.00	Ponding	1.00
	İ		į		į		ĺ
Strathcona	2	Very limited:		Very limited:		Very limited:	
	l I	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	<u> </u>	Ponding	1.00	Ponding	1.00	Ponding	1.00
	İ	Ī	į	İ	į	į	į
I5A:		 		 		 	
Borup	/5 	Very limited:   Depth to	1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	11.00
	! 	saturated zone	1	saturated zone	1	saturated zone	
	i	Ponding	1.00	Ponding	1.00	Ponding	1.00
							1

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia buildings	1
	unit   		Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I5A: Glyndon	   9 	Very limited: Depth to saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00
Rosewood	   8 	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	    1.00
	 	Ponding 	1.00	Ponding 	1.00	Ponding 	1.00
Augsburg	   5 	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	  Very limited:   Depth to   saturated zone   Shrink-swell	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	 	Ponding		Ponding	1.00	Ponding	
	ĺ		į		į	İ	į
Augsburg, depressional	   3     	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00 	   Very limited:   Ponding   Depth to   saturated zone   Shrink-swell	  1.00  1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00   
17A:	 	 		 		 	
Bowstring	<b>4</b> 5 	Very limited:   Ponding   Flooding	  1.00  1.00	Very limited:   Ponding   Flooding	  1.00  1.00	Very limited:   Ponding   Flooding	  1.00  1.00
		Depth to   saturated zone   Content of	1.00  1.00 	Depth to   saturated zone   Content of	1.00  1.00 	Depth to   saturated zone   Content of	1.00  1.00
	   	content or   organic matter	   	content or   organic matter	1.00   	content or   organic matter	1.00   
Fluvaquents	45 	Ponding	1.00	Very limited:   Ponding	1.00	Very limited:   Ponding	11.00
	     	Flooding   Depth to   saturated zone	1.00  1.00 	Flooding   Depth to   saturated zone	1.00  1.00 	Flooding   Depth to   saturated zone	1.00  1.00 
Hapludolls	   5 	  Very limited:   Flooding   Slope	  1.00  0.63	  Very limited:   Flooding   Slope	  1.00  0.63	  Very limited:   Flooding   Slope	  1.00  1.00
Water	   5	  Not rated		  Not rated		  Not rated	
I8A:	l I	 	 	 	 	 	
Cathro	80   	Ponding	  1.00  1.00		  1.00  1.00	!	  1.00  1.00
		saturated zone	į	saturated zone	į	saturated zone	į
Hamre	   8 		1.00		1.00		    1.00
	   	Depth to   saturated zone 	1.00 	Depth to   saturated zone 	1.00 	Depth to   saturated zone 	1.00
Northwood	3		1.00		1.00	!	1.00
	   	Depth to saturated zone	1.00 	Depth to   saturated zone 	1.00 	Depth to saturated zone	1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	11
	unit   		•	   Rating class and   limiting features	•	   Rating class and   limiting features	Value
			Ī		I		Ī
I8A:			!				!
Roliss	3	Very limited:	11.00	Very limited:	•	Very limited:	
	 	Depth to saturated zone	11.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	! 	Ponding	1.00	Ponding	1.00	Ponding	1.00
			į		İ		ĺ
Berner	2	Very limited:	1.00	Very limited:   Ponding	  1.00	Very limited:	11.00
	l I	Ponding Depth to	11.00	Depth to	11.00		11.00
	 	saturated zone	1	saturated zone	1	saturated zone	1
	i	Content of	1.00		i	Content of	1.00
	į	organic matter	į		į	organic matter	į
Kratka	   2	  Very limited:		  Very limited:	 	  Very limited:	
TE della	i -	Depth to	1.00		1.00	_	1.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
Seelyeville		  Very limited:	 	  Very limited:	 	  Very limited:	
beeryeville	-	Ponding	1		1		11.00
	İ	Depth to	1.00		1.00		1.00
	į	saturated zone	į	saturated zone	į	saturated zone	İ
		Content of	1.00	Content of	1.00	Content of	1.00
		organic matter		organic matter		organic matter	
19A:	 	! 		 	 	 	
Clearwater	80	Very limited:	İ	Very limited:	į	Very limited:	İ
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Shrink-swell Ponding	1.00	Shrink-swell Ponding	1.00  1.00	Shrink-swell   Ponding	1.00
	 	Policing		Ponding		Ponding	1
Clearwater, very	į	į	į		į		į
cobbly	5	Very limited:		Very limited:	•	Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Shrink-swell	1		1	·	11.00
	<u> </u>	Ponding	1.00		1.00	Ponding	1.00
Deir						 	
Reis	l s	Very limited:   Depth to	1 1.00	Very limited:   Depth to	1	Very limited:   Depth to	1
	i i	saturated zone		saturated zone	1	saturated zone	1
	į	Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
Clearnater				l		l	
Clearwater, depressional	   3	  Very limited:		  Very limited:	! 	  Very limited:	1
	i	Ponding	1.00		1.00	_	1.00
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	!	saturated zone	ļ.	saturated zone	I	saturated zone	ļ
	i I	Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
Espelie	   3	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	!	saturated zone	ļ.	saturated zone	I	saturated zone	ļ
		Shrink-swell Ponding	1.00  1.00		1.00  1.00	Shrink-swell Ponding	1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings	1
	unit   			   Rating class and   limiting features		   Rating class and   limiting features	Value
			i		i		i
I9A: Foxlake	   2 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	:	  Very limited:   Depth to	    1.00
	   	saturated zone Shrink-swell	  1.00  1.00	saturated zone Shrink-swell	  1.00  1.00	saturated zone Shrink-swell	  1.00  1.00
Hattie	   1 	  Very limited:   Shrink-swell	:	  Very limited:   Depth to	    1.00	  Very limited:   Shrink-swell	    1.00
	   	Depth to   saturated zone 	0.20   	!	  1.00 	Depth to   saturated zone 	0.20   
Huot	1     	Somewhat limited:   Depth to   saturated zone 	  0.01   	!	  1.00  1.00 	! -	  0.01 
I11A:	 	 		! 		 	
Deerwood	85     	Ponding	  1.00  1.00	!	  1.00  1.00	!	  1.00  1.00
Rosewood	   6   	saturated zone	1.00	saturated zone	1.00	saturated zone	1.00
	l I	Ponding 	1.00 	Ponding 	1.00 	Ponding 	1.00 
Markey	;   3   	Ponding	  1.00  1.00	!	  1.00  1.00	!	  1.00  1.00
	;     	Content of organic matter	1.00	 	;     	Content of organic matter	1.00
Strathcona	2 	  Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  1.00 	  Very limited:   Depth to   saturated zone	  1.00 
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Syrene	   2     	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Venlo	   2 		1.00		1.00		1.00
	   	Depth to   saturated zone 	1.00   	Depth to   saturated zone 	1.00   	Depth to   saturated zone 	1.00   
I12A: Eckvoll	   70 	  Somewhat limited:   Depth to   saturated zone	    0.01	  Very limited:   Depth to   saturated zone	    1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Kratka	   8 	<u>.                                      </u>	    1.00	! -	    1.00	<u> </u>	    1.00
	   	saturated zone   Ponding 	  1.00 	saturated zone Ponding	  1.00 	saturated zone Ponding	  1.00 

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with   basements 		Small commercia   buildings 	.1
	   		Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
I12A: Smiley	     7 	    Very limited:   Depth to   saturated zone	      1.00	    Very limited:   Depth to   saturated zone	      1.00	    Very limited:   Depth to   saturated zone	      1.00
Linveldt	       5		  1.00        0.01	Ponding    Very limited:	  1.00      1.00	Ponding Somewhat limited:	1.00        0.01
Reiner	     5 	saturated zone Somewhat limited: Depth to	      0.01	<u>.                                      </u>	      1.00	!	      0.01
Foldahl	     2 	saturated zone    Somewhat limited:   Depth to   saturated zone	      0.01	saturated zone    Very limited:   Depth to   saturated zone	      1.00	saturated zone    Somewhat limited:   Depth to   saturated zone	      0.01
Pelan	   2 	Somewhat limited:   Depth to   saturated zone	    0.01	  Very limited:   Depth to   saturated zone	    1.00	Somewhat limited:   Depth to   saturated zone	
Poppleton	   1   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone 	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
I13A: Espelie	   75       	Depth to saturated zone Shrink-swell	    1.00    1.00  1.00	  Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	    1.00    1.00  1.00	  Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	  1.00    1.00  1.00
Foxlake	   8     	saturated zone Shrink-swell	  1.00    1.00  1.00	saturated zone Shrink-swell	  1.00    1.00  1.00	  Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	  1.00    1.00  1.00
Hilaire	   7     	  Somewhat limited:   Depth to   saturated zone 	    0.01     	  Very limited:   Shrink-swell   Depth to   saturated zone	    1.00  1.00 	  Somewhat limited:   Depth to   saturated zone 	    0.01   
Clearwater, depressional	5     	Depth to saturated zone	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone   Shrink-swell	  1.00  1.00    1.00
Thiefriver	   5       	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00  1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with   basements 		Small commercia   buildings 	11
	unit   		Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
	ļ		ļ	!	ļ	!	ļ
I15A: Flaming	   70   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Garborg	   10   	  Somewhat limited:   Depth to   saturated zone	    0.99 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    0.99 
Hamar	   5 	saturated zone	1.00	saturated zone	    1.00 	saturated zone	    1.00 
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Ulen	   5   	  Somewhat limited:   Depth to   saturated zone	    0.44 	  Very limited:   Depth to   saturated zone	1.00	Somewhat limited:   Depth to   saturated zone	    0.44 
Poppleton	   3 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Sandberg	   3	  Not limited	 	  Not limited	 	  Not limited	!
Foldahl	   2 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Radium	   2   	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.96 	  Not limited   	     
I16F:	l I	 	l I	 	 	 	1
Fluvaquents	   55       	Ponding Flooding	  1.00  1.00  1.00	Flooding	  1.00  1.00  1.00	!	  1.00  1.00  1.00
Hapludolls	   25   		    1.00  0.63	!	  1.00  0.63	  Very limited:   Flooding   Slope	  1.00  1.00
Hapludalfs	   7         	  Very limited:   Flooding   Slope   Shrink-swell	İ	  Very limited:   Flooding   Slope   Depth to	  1.00  1.00  1.00	  Very limited:   Flooding   Slope   Shrink-swell   Depth to   saturated zone	  1.00  1.00  0.50  0.01
Fairdale	   5         	Shrink-swell	  1.00  0.50  0.37  0.01	saturated zone	  1.00  1.00    0.50  0.37	   Very limited:   Flooding   Slope   Shrink-swell   Depth to   saturated zone	  1.00  1.00  0.50  0.01

Table 20a.--Building Site Development--Continued

Map symbol and component name	Pct. of map unit	basements	ut	Dwellings with basements		Small commercia   buildings 	1
	   	'	•	Rating class and   limiting features		Rating class and limiting features	
	!	!	ļ.	!	ļ		İ
I16F: Water	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	
Bowstring	2	  Very limited:	i	  Very limited:	İ	  Very limited:	i
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		· -	1.00	!	!	Flooding	1.00
	ļ.	! -	1.00	! -	1.00	Depth to	1.00
	!	saturated zone		saturated zone		saturated zone	
	l I	Content of   organic matter	1	Content of organic matter	11.00	Content of organic matter	1.00
	i		i		i		i
Rauville	1	Very limited:	i	Very limited:	i	Very limited:	i
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		! -	1.00	! -	!	Depth to	1.00
	ļ	saturated zone		saturated zone	,	saturated zone	
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
I17A:	1	 		 	 	 	1
Foldahl	l l 75	  Somewhat limited:	ŀ	  Very limited:	i	  Somewhat limited:	i
		•	•	! - T	!	Depth to	0.01
	į	saturated zone	į	saturated zone	İ	saturated zone	İ
		[	[	[			1
Kratka	10	! -	:	Very limited:	:	Very limited:	1
	!	Depth to	11.00	! -	:	Depth to	11.00
	l I	saturated zone Ponding	I I1.00	saturated zone Ponding	!	saturated zone Ponding	1
	i						
Roliss	5	Very limited:	į	Very limited:	İ	Very limited:	i
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	!	saturated zone	!	saturated zone		saturated zone	!
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Flaming	   4	  Somewhat limited:	 	  Very limited:	l I	  Somewhat limited:	
1 1 miling	1	Depth to	:	! -	!	Depth to	0.01
	i	saturated zone	İ	saturated zone		saturated zone	i
		[		[			1
Grimstad	2	Somewhat limited:	•	Very limited:	:	Very limited:	!
	ļ	Depth to	0.99	! -	1.00	Depth to	0.99
		saturated zone	 	saturated zone	l I	saturated zone	
Linveldt	2	  Somewhat limited:	i	  Very limited:	i	  Somewhat limited:	i
	i	•		! -	:	Depth to	0.01
	İ	saturated zone	İ	saturated zone	Ì	saturated zone	İ
			ļ		ļ		!
Eckvoll	1	•		:	!	Somewhat limited:	  0.01
	i i	saturated zone	:	saturated zone		Depth to saturated zone	10.01
	i		i		i		i
Strathcona	1	Very limited:	i	  Very limited:	į	  Very limited:	İ
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	ļ	saturated zone		saturated zone	!	saturated zone	1
		Ponding	1.00	Ponding	1.00	Ponding	1.00
I18A:	1	 	 	 	 	 	1
Foldahl	I   75	  Somewhat limited:	 	  Very limited:		  Somewhat limited:	1
		•		:	1	Depth to	0.01
	İ	saturated zone		saturated zone		saturated zone	i
		ı	1	ı		i	

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	1
	unit   			   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I18A: Kratka	     10   	Depth to saturated zone	:	saturated zone	      1.00    1.00	saturated zone	      1.00    1.00
Roliss	;   5     	saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Flaming	   4 	  Somewhat limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	!	  Somewhat limited:   Depth to   saturated zone	    0.01 
Grimstad	   2   	  Somewhat limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	•	  Very limited:   Depth to   saturated zone	    0.99 
Linveldt	   2   		:	  Very limited:   Depth to   saturated zone	!	  Somewhat limited:   Depth to   saturated zone	    0.01 
Eckvoll	   1   	  Somewhat limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone	!	  Somewhat limited:   Depth to   saturated zone	    0.01 
Strathcona	   1   	saturated zone	1.00	saturated zone	 	saturated zone	  1.00    1.00
I19A: Foxhome	     65   	!	      0.01	  Very limited:   Depth to   saturated zone	      1.00	    Somewhat limited:   Depth to   saturated zone	      0.01
Kittson	   10   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Strandquist	   10     	Depth to saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Foldahl	   5   	  Somewhat limited:   Depth to   saturated zone	    0.01	  Very limited:   Depth to   saturated zone	    1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Grimstad	   5     	  Somewhat limited:   Depth to   saturated zone	    0.99 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    0.99 
Roliss	       	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00

Table 20a.--Building Site Development--Continued

Map symbol and component name	Pct. of map unit	basements	out	Dwellings with basements		Small commercia   buildings 	11
	   		Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
7103							
I19A: Mavie	2		1.00		1.00	! -	1.00
		saturated zone Ponding	1	saturated zone Ponding	1	saturated zone Ponding	1.00
	İ	į		į	İ	į	
I20A: Foxlake	   75 	Depth to	1.00	! -	1.00	! -	1
		saturated zone Shrink-swell	1.00	saturated zone Shrink-swell	1.00	saturated zone Shrink-swell	11.00
	i	!	1.00	!	1.00	!	1.00
Clearwater	5	  Very limited:		  Very limited:		  Very limited:	
Clearwater		Depth to	1.00		1.00	:	1.00
	İ	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Shrink-swell   Ponding	1.00	!	1.00	!	1.00
	i		1.00				
Foxlake, very cobbly	5	Very limited:	:	Very limited:	:	Very limited:	į
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	1		1	!	1
	i	!	1.00	!	1.00	!	1.00
Augsburg	3	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00		1.00	:	1.00
		saturated zone		saturated zone		saturated zone	1
		Ponding	1.00	Shrink-swell   Ponding	1.00	Ponding	1.00
	i	İ	i			İ	İ
Clearwater,		 		 			
depressional	3		1 1.00	Very limited:   Ponding	1 1.00	Very limited:   Ponding	1.00
	i	Depth to	1.00		1.00		1.00
	İ	saturated zone	İ	saturated zone	İ	saturated zone	Ì
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
Espelie	3	Very limited:		Very limited:		  Very limited:	i
		Depth to	1.00	! -	1.00		1.00
		saturated zone Shrink-swell	1 00	saturated zone Shrink-swell	  1.00	saturated zone Shrink-swell	1.00
		Ponding	1.00	'	1.00	•	1.00
Hilaire		  Somewhat limited:		  Very limited:		  Somewhat limited:	
niiaile	4	Depth to	0.01	•	1	!	0.01
	i	saturated zone	i	Depth to	1.00	! -	i
				saturated zone			
Reis	2	  Very limited:		  Very limited:		  Very limited:	
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
	1	saturated zone		saturated zone		saturated zone	
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell 	1.00
Wheatville	2	Very limited:	:	Very limited:	į	Very limited:	į
	1	Depth to	1.00		1.00	! -	1.00
	I I	saturated zone	I	saturated zone	  1.00	saturated zone	I
	 	saturated zone	   	saturated zone   Shrink-swell 	1.00	  -   saturated zone	

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	1
	unit   		•	   Rating class and   limiting features		   Rating class and   limiting features	
I22A: Glyndon	     75 	• -	•	    Very limited:   Depth to   saturated zone		    Very limited:   Depth to   saturated zone	      1.00
Borup	   10     	Depth to saturated zone	•	saturated zone		  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Augsburg	   5     	saturated zone	:	saturated zone Shrink-swell	:	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Ulen	     5 	  Somewhat limited:   Depth to   saturated zone	:	Very limited:	į	  Somewhat limited:   Depth to   saturated zone	      0.44
Wheatville	   3   	  Very limited:   Depth to   saturated zone	!	  Very limited:   Depth to   saturated zone   Shrink-swell	    1.00    1.00	  Very limited:   Depth to   saturated zone	    1.00 
Flaming	   2   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	    0.01 
I24A: Grimstad	     70 	'	      0.99	  Very limited:   Depth to   saturated zone	      1.00	  Very limited:   Depth to   saturated zone	0.99
Strathcona	   12   	Depth to saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	  1.00    1.00
Foldahl	   5 	  Somewhat limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	!	  Somewhat limited:   Depth to   saturated zone	    0.01 
Hamerly	   5 	  Very limited:   Depth to   saturated zone	•	  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	    1.00
Foxhome	   2   	  Somewhat limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	0.01
Karlsruhe	   2   	  Somewhat limited:   Depth to   saturated zone	    0.44 	  Very limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	    0.44 
Mavie	   2     	saturated zone		saturated zone		  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with   basements 		Small commercia   buildings 	.1
	   			Rating class and   limiting features	•	Rating class and   limiting features	•
I24A: Ulen	     2   	    Somewhat limited:   Depth to   saturated zone	      0.44 	    Very limited:   Depth to   saturated zone	      1.00 	    Somewhat limited:   Depth to   saturated zone	      0.44 
I25A: Hamar	   75     	Depth to saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Garborg	   10   	'		  Very limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone	    0.99 
Rosewood	   7   	Depth to saturated zone	1.00	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Venlo	   3   	Ponding	1.00		1.00	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Flaming	   2 			  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Hangaard	   2   	Depth to saturated zone	:	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Kratka	   1   	saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I26A: Hamerly	     75   		1.00	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	
Vallers	   12     	Depth to saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Foxhome	   3   	'	0.01	Very limited: Depth to saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Grimstad	   3   	  Somewhat limited:   Depth to   saturated zone	0.99	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	    0.99 
Hamerly, very cobbly	   3     		1.00	  Very limited:   Depth to   saturated zone 		  Very limited:   Depth to   saturated zone 	    1.00 

Table 20a.--Building Site Development--Continued

component name	Pct.  Dwellings without   of   basements  map    unit			Dwellings with basements		Small commercia   buildings 	1
	unite   			Rating class and   limiting features		Rating class and   limiting features	Value
126A:	 	 	 	 	 	 	
Strathcona	   3 	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	1.00
		!	1.00		1.00	!	1.00
Roliss, depressional	   1	  Very limited:	!	  Very limited:	•	  Very limited:	
	     	Ponding Depth to saturated zone	1.00  1.00 	!	1.00  1.00 	Ponding   Depth to   saturated zone	1.00  1.00 
I27A:	<u> </u>		i	İ		İ	
Hamre	80 	<u> </u>	1.00	Very limited:   Ponding	  1.00	Very limited:   Ponding	11.00
	   		1.00	!	1.00  1.00 		11.00
Northwood	   5	  Very limited:		  Very limited:	 	  Very limited:	
	i		1.00		1.00		1.00
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
Roliss	   5	  Very limited:	•	  Very limited:	•	  Very limited:	
	l I	Depth to saturated zone	11.00	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00	!	1.00
Smiley	5	  Very limited:	•	  Very limited:	•	  Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	   	Ponding	1.00	!	1.00	!	1.00
Cathro	3		•		:	  Very limited:	
	 	!	1.00		1.00  1.00		1.00
	   	saturated zone		saturated zone		saturated zone	
Kratka	2	  Very limited:	:	  Very limited:	•	  Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
	   	Ponding	1.00		1.00	•	1.00
I32A:		 	İ	 		İ	
Hilaire	75	!	•	Very limited:	!	Somewhat limited:	
	   	Depth to   saturated zone 	0.01   	Shrink-swell Depth to saturated zone	1.00  1.00 	! -	0.01   
Espelie	     12	    Very limited:	   	  Very limited:	 	    Very limited:	Í I
	į	Depth to	1.00	! -	1.00	! -	1.00
	! 	saturated zone Shrink-swell	1.00	saturated zone Shrink-swell	  1.00	saturated zone Shrink-swell	1.00
	 	Ponding	1.00	!	1.00	!	1.00
Huot	5	Somewhat limited:	:	  Very limited:	:	Somewhat limited:	
	 	Depth to saturated zone	0.01	Shrink-swell   Depth to   saturated zone	1.00  1.00	Depth to saturated zone	0.01

Table 20a.--Building Site Development--Continued

component name	Pct. of map	Dwellings witho basements	ut	Dwellings with basements		Small commercia   buildings 	.1
	unit   	'	•	   Rating class and   limiting features		   Rating class and   limiting features	Value
I32A: Flaming	       2	    Somewhat limited:		Very limited: Depth to	      1.00	    Somewhat limited:	
	 	saturated zone	į Į	saturated zone		saturated zone	
Foxlake	2       	saturated zone Shrink-swell	  1.00    1.00  1.00	saturated zone Shrink-swell	  1.00    1.00  1.00	saturated zone Shrink-swell	  1.00    1.00  1.00
Wheatville	   2     	  Very limited:   Depth to   saturated zone	    1.00   	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone	    1.00 
Thiefriver	   1     	saturated zone	  1.00    1.00	saturated zone Shrink-swell	  1.00    1.00  1.00	saturated zone	  1.00    1.00
Wyandotte	   1     	saturated zone	!	!	  1.00    1.00  1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I34A:	 	 	 	 	 	 	
Huot	75     	Somewhat limited:   Depth to   saturated zone	  0.01   	Very limited:   Shrink-swell   Depth to   saturated zone	  1.00  1.00 	: -	  0.01 
Thiefriver	   12       	Depth to saturated zone	  1.00    1.00	saturated zone Shrink-swell	  1.00    1.00  1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hilaire	   5     	  Somewhat limited:   Depth to   saturated zone	    0.01   	!	    1.00  1.00	:	  0.01   
Flaming	   3   	•	  0.01 	  Very limited:   Depth to   saturated zone	  1.00 	  Somewhat limited:   Depth to   saturated zone	0.01
Foxlake	   3     	saturated zone Shrink-swell	1.00    1.00	saturated zone Shrink-swell	1.00	   Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	  1.00    1.00  1.00
Ulen	   2   	  Somewhat limited:   Depth to   saturated zone		Very limited: Depth to saturated zone	    1.00   	  Somewhat limited:   Depth to   saturated zone	  0.44 

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements		Dwellings with basements		   Small commercial   buildings 	
	unitc   		Value	   Rating class and   limiting features		Rating class and   limiting features	Value
I36A:		 				 	
Kittson	70   70 	Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	  1.00 	Somewhat limited:   Depth to   saturated zone	  0.01 
Roliss	   12     	Depth to saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hamerly	     5	  Very limited:	į	  Very limited:	į Į	    Very limited:   Depth to	      1.00
	! 	saturated zone		saturated zone		saturated zone	
Kratka	   5 	  Very limited:   Depth to   saturated zone	1.00 	saturated zone	1.00	  Very limited:   Depth to   saturated zone	    1.00
	 	Ponding 	1.00 	Ponding 	1.00 	Ponding 	1.00
Grimstad	3   	Somewhat limited:   Depth to   saturated zone	  0.99 	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  0.99 
Strandquist	   3 	  Very limited:   Depth to   saturated zone	1.00 	saturated zone	1.00	saturated zone	1.00
Foxhome	     2 	Ponding    Somewhat limited:   Depth to   saturated zone	1.00      0.01	  Very limited:	1.00      1.00 	Ponding    Somewhat limited:   Depth to   saturated zone	1.00      0.01
I38A:	 	 	 	 	 	 	
Kratka	70     	Depth to saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	Very limited: Depth to saturated zone Ponding	  1.00    1.00
Smiley	   7 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00 
	 	Ponding 	1.00 	Ponding 	1.00 	Ponding	1.00
Foldahl	5   	Somewhat limited: Depth to saturated zone	  0.01 	Very limited:   Depth to   saturated zone	1.00	Somewhat limited:   Depth to   saturated zone	0.01
Kratka, very cobbly	   5   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Strathcona	5     	  Very limited:   Depth to   saturated zone   Ponding	į	  Very limited:	    1.00    1.00	  Very limited:	  1.00    1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	al
	unit 	'	  Value	Rating class and	Value	Rating class and	Value
	<u></u>		•	limiting features		-	
I38A:	 	 		 	 	 	
Kratka, depressional	   3	  Very limited:		  Very limited:		  Very limited:	
		-		-		Ponding	1.00
		Depth to saturated zone	:	Depth to saturated zone	:	Depth to saturated zone	1.00
	 	sacuraced zone		sacuraced zone	 	sacuraced zone	
Strandquist	3	! -	:	! - T	:	Very limited:	İ
		:	:	:	1	Depth to	11.00
	 	saturated zone Ponding	!	saturated zone Ponding	!	saturated zone Ponding	1 1.00
	į	i	į	i	İ	İ	į
Linveldt	2			!	!	Somewhat limited:	
	 	Depth to saturated zone	!	Depth to saturated zone	:	Depth to saturated zone	0.01
			İ				i
I39A:				 			
Linveldt	65 	•		Very limited:   Depth to	!	Somewhat limited:   Depth to	10.01
	<u> </u>	saturated zone	:	saturated zone	:	saturated zone	
			ļ				ļ
Kratka	14 	! - T	:	! - T	:	Very limited:   Depth to	11.00
	! 	saturated zone	•	saturated zone		saturated zone	!
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
Reiner	   10	  Somewhat limited:	 	  Very limited:	l I	  Somewhat limited:	
		•	•			Depth to	0.01
	ļ	saturated zone		saturated zone		saturated zone	!
Smiley	   5	  Very limited:	 	  Very limited:	 	  Very limited:	
	ĺ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	!	saturated zone	:
	 	Ponding 	11.00	Ponding	11.00	Ponding 	1.00 
Eckvoll	3	Somewhat limited:		•	İ	Somewhat limited:	į
		! -	:	:	1	Depth to	0.01
	 	saturated zone	 	saturated zone	 	saturated zone	
Foldahl	2	!	•	! - T	!	Somewhat limited:	į
	 	Depth to saturated zone	0.01	Depth to saturated zone	:	Depth to saturated zone	0.01
	! 	sacuraced zone		sacuraced zone		Sacuraced 2011e	
Pelan	1	!		Very limited:	!	Somewhat limited:	İ
	 	Depth to saturated zone	0.01	Depth to saturated zone	1.00	Depth to saturated zone	0.01
	<u> </u>		İ				i
I41A:		 		 		Town limited.	
Markey	60 		1.00	Very limited:   Ponding	!	Very limited:   Ponding	11.00
	İ		1.00	· -	:	Depth to	1.00
	ļ	saturated zone		saturated zone	ļ	saturated zone	ļ
	 	Content of   organic matter	1.00	 	 	Content of   organic matter	1.00
	İ		İ	İ	İ		i
Deerwood	12		!	Very limited:	!	Very limited:	
	 		1.00	!	1.00	Ponding Depth to	1.00
							, = 3 0 0

Table 20a.--Building Site Development--Continued

component name	  Pct.   of  map  unit	basements	ut	   Dwellings with   basements 	L	   Small commercia   buildings 	ıl
				Rating class and	•		Value
	L	limiting reatures	<u> </u>	limiting features		limiting features	 
I41A:	İ	İ	į	İ	į	İ	į
Berner	2	Very limited:	:	Very limited:	:	Very limited:	
	 	Ponding Depth to	1.00		1.00  1.00	Ponding Depth to	1.00
	l I	saturated zone	1	saturated zone	1	saturated zone	1
	i	Content of	1.00		1	Content of	1.00
	į	organic matter	į	į	į	organic matter	į
Hamar	   2	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	1
	 	Ponding 	1.00 	Ponding 	1.00 	Ponding 	1.00
Seelyeville	2	Very limited:	i	Very limited:	i	Very limited:	i
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	:	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Content of organic matter	1.00 	Content of organic matter	1.00 	Content of organic matter	1.00
Syrene	   2	  Very limited:		  Very limited:		  Very limited:	
27 2 0220	i -	Depth to	1.00	! -	1.00	!	1.00
	į	saturated zone	į	saturated zone	į	saturated zone	į
		Ponding	1.00	Ponding	1.00	Ponding	1.00
I42A:		 		 		 	i
Markey, ponded	85	<u>.                                      </u>	:	Very limited:	:	Very limited:	1
		Ponding	11.00		11.00	!	11.00
	l I	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Content of	11.00	Sacuracea Zone	i	Content of	1
	į	organic matter	į	į	į	organic matter	į
Markey	   5	  Very limited:		  Very limited:		  Very limited:	
		Ponding	1.00		1.00		1.00
		Depth to	1.00	:	1.00		1.00
	 	saturated zone Content of	1.00	saturated zone		saturated zone Content of	11.00
		organic matter		 		organic matter	
Deerwood	   4	  Very limited:		  Very limited:		  Very limited:	
	i	Ponding	1.00	Ponding	1.00		1.00
	ĺ	Depth to	1.00	Depth to	1.00	Depth to	1.00
	 	saturated zone		saturated zone		saturated zone	
Seelyeville, ponded	4	Very limited:	:	Very limited:	:	Very limited:	į
		Ponding	11.00	!	11.00		11.00
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	Content of	1.00	!	11.00	!	1
	į	organic matter		organic matter		organic matter	
Hamar	   1	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	ļ	saturated zone	1	saturated zone		saturated zone	1
	 	Ponding 	1.00 	Ponding	1.00 	Ponding 	1.00
Hangaard	1	  Very limited:	į	  Very limited:	į	  Very limited:	į
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Ponding	1.00	Ponding	1.00	Ponding	1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	1
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I43A: Mavie	     70 	! - T	      1.00	    Very limited:   Depth to	      1.00	    Very limited:   Depth to	      1.00
	   	saturated zone	1.00	saturated zone	1.00	saturated zone   Ponding	1.00
Vallers	   10     	Depth to saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Strandquist	   7 	saturated zone	1.00	saturated zone	1.00	saturated zone	    1.00 
Strathcona	     5   	  Very limited:   Depth to   saturated zone	1.00      1.00    1.00	  Very limited:   Depth to   saturated zone	1.00      1.00    1.00	Ponding    Very limited:   Depth to   saturated zone   Ponding	1.00      1.00    1.00
Strathcona, depressional	       3   	    Very limited:   Ponding	i I	    Very limited:   Ponding		    Very limited:	1.00         1.00   1.00
Foxhome	     2 	  Somewhat limited:	    0.01	  Very limited:	      1.00	  Somewhat limited:	    0.01
Karlsruhe	   2 	  Somewhat limited:	    0.44 	  Very limited:	    1.00	  Somewhat limited:	    0.44 
Grimstad	   1   	  Somewhat limited:   Depth to   saturated zone	    0.99 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    0.99 
I44A: Newfolden	     75   	!	      0.01	  Very limited:   Depth to   saturated zone	      1.00	  Somewhat limited:   Depth to   saturated zone	      0.01
Smiley	   12     	Depth to saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Boash	   8     	  Very limited:   Depth to   saturated zone   Shrink-swell	İ	  Very limited:   Depth to   saturated zone   Ponding	į	  Very limited:	    1.00    1.00  1.00
Linveldt	   4   	    Somewhat limited:	į	    Very limited:	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia buildings	11
	unit   			   Rating class and   limiting features		   Rating class and   limiting features	Value
I44A: Hapludolls	     1 		      1.00  0.63	!	      1.00  0.63		      1.00  1.00
I45A: Northwood	     75   	Ponding	      1.00  1.00	!	      1.00  1.00	!	    1.00  1.00
Hamre	   10   	Ponding	    1.00  1.00	!	    1.00  1.00	!	  1.00  1.00
Berner	   5       	  Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	  1.00  1.00    1.00	Depth to saturated zone	    1.00  1.00 	!	  1.00  1.00      1.00
Kratka	   5   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Strandquist	   3   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Roliss	   2     	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
I46A: Pits	     85	    Not rated		    Not rated		    Not rated	
Udipsamments	   10 	  Very limited:   Slope	1.00	  Very limited:   Slope	    1.00	  Very limited:   Slope	1.00
Radium	   2   	  Not limited   	     	Somewhat limited:   Depth to   saturated zone	    0.96 	  Not limited   	     
Maddock	   1 	  Not limited 	   	  Not limited 	   	  Not limited 	
Marquette	   1 	  Not limited   	     	  Not limited   	     	  Somewhat limited:   Slope 	0.12
Sandberg	   1 	  Not limited 	   	  Not limited 	   	  Not limited 	
I47A: Poppleton	   75 	Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00	  Somewhat limited:   Depth to   saturated zone	    0.01

Table 20a.--Building Site Development--Continued

component name	  Pct.   of  map  unit	basements	ut	   Dwellings with   basements 		   Small commercia   buildings 	1
	   	Rating class and	•	Rating class and limiting features	•		
I47A: Flaming	     12   	'	0.01	    Very limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	      0.01
Garborg	   5 	  Somewhat limited:   Depth to   saturated zone	0.99	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	    0.99 
Hamar	   3     	saturated zone	1.00	saturated zone	1.00 	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Radium	   2 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.96 	  Not limited   	     
Ulen	   2   	  Somewhat limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	:	  Somewhat limited:   Depth to   saturated zone	    0.44 
Maddock	   1 	  Not limited 	   	  Not limited 	   	  Not limited 	   
I48A: Radium	     75   	  Not limited 	     	  Somewhat limited:   Depth to   saturated zone	    0.96	  Not limited 	     
Sandberg	   7	  Not limited	   	  Not limited	   	  Not limited	
Oylen	   5   	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.96 		     
Flaming	   4   	•	0.01	  Very limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	0.01
Garborg	   3   	   Somewhat limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone		   Very limited:   Depth to   saturated zone	  0.99 
Hangaard	   3   	saturated zone	1.00	saturated zone	1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hamar	   2   	saturated zone	:	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Poppleton	   1   	•		  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
I50A: Reiner	     70   	'	      0.01 	  Very limited:   Depth to   saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	1
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I50A: Smiley	     12     	Depth to saturated zone	      1.00    1.00	saturated zone	      1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	      1.00    1.00
Reiner, very cobbly	   7 	  Somewhat limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone	!	  Somewhat limited:   Depth to   saturated zone	    0.01 
Linveldt	   5 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Eckvoll	   3 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Kratka	   3     	saturated zone	!	saturated zone	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I51A: Reiner	   65   	:	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Smiley	   9   	saturated zone	    1.00    1.00	saturated zone	 	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Reiner fine sandy loam	     8 	    Somewhat limited:   Depth to   saturated zone	      0.01	    Very limited:   Depth to   saturated zone	      1.00	    Somewhat limited:   Depth to   saturated zone	      0.01
Linveldt	   7   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Kratka	   5   	saturated zone	1	saturated zone	 	saturated zone	  1.00    1.00
Eckvoll	   3 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Reiner, very cobbly	   3   	  Somewhat limited:   Depth to   saturated zone	    0.01   	  Very limited:   Depth to   saturated zone 	    1.00   	  Somewhat limited:   Depth to   saturated zone	    0.01   
I52A: Reis	   55       	Depth to saturated zone	:	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Shrink-swell	    1.00    1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia buildings	1
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
					ļ	<u> </u>	ļ
I52A: Clearwater	   30   	! - T	    1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
	;   	!	1.00  1.00	Shrink-swell Ponding	1.00  1.00	Shrink-swell   Ponding 	1.00
Clearwater, very	i		i		i	İ	i
cobbly	5   	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  1.00 
	   	!	1.00  1.00 	Shrink-swell   Ponding 	1.00  1.00 	Shrink-swell   Ponding 	1.00  1.00 
Clearwater,	ļ		ļ		ļ		ļ
depressional	3 	Very limited:   Ponding	  1.00	Very limited:   Ponding	1.00	Very limited:   Ponding	11.00
		!	11.00	!	11.00	Depth to	11.00
	<u> </u> 	saturated zone	1.00	saturated zone	1.00	saturated zone Shrink-swell	1.00
Espelie	l   3	  Very limited:		  Very limited:		  Very limited:	
•		Depth to saturated zone	1.00    1.00	Depth to saturated zone	1.00		1.00
	 	!	1.00	!	1.00  1.00	Ponding	1.00
	i	İ	İ	İ	i	j	i
Hattie	3	Very limited:		Very limited:	:	Very limited:	
	   	!	1.00  0.20 	! -	1.00    1.00	Shrink-swell   Depth to   saturated zone	1.00  0.20
	i		İ	İ	i		İ
Wyandotte	1   	Very limited:   Depth to   saturated zone	  1.00	Very limited:   Depth to   saturated zone	  1.00 	Very limited:   Depth to   saturated zone	  1.00
	!	!	1.00	Shrink-swell   Ponding	1.00	Ponding	1.00
I53A:	 	 	 	 		 	
	75   75	Very limited:   Depth to   saturated zone	1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	1.00
	 		1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
	į	<u> </u>	į	<u> </u>	į	<u> </u>	į
Kratka	8 	Very limited:   Depth to		Very limited:   Depth to	1.00	Very limited:   Depth to	1.00
	i i	saturated zone	1	saturated zone	1	saturated zone	1
	į	!	1.00	Ponding	1.00	Ponding	1.00
Roliss, very cobbly	   7	  Very limited:	 	  Very limited:	 	  Very limited:	
	į	Depth to	1.00	•	1.00	•	1.00
	 	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
Kittson	   5	  Somewhat limited:	 	  Very limited:		  Somewhat limited:	
		Depth to	0.01	:	1.00	!	0.01
		saturated zone		saturated zone	1	saturated zone	

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		   Small commercia   buildings 	11
	unit	'	17721110	Rating class and	17721110	Pating glagg and	Value
	<u> </u> 	limiting features	•	limiting features	•	limiting features	
I53A:		 		 		 	
Roliss, depressional	3	  Very limited:	i	  Very limited:		  Very limited:	i
		!	1.00	!	1.00		1.00
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
			İ		<u> </u>		
Smiley	2	Very limited:	:	Very limited:	•	Very limited:	
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	<u> </u>	Ponding	1.00	Ponding	1.00	Ponding	1.00
TE43.						  -	
I54A: Roliss, depressional	   80	  Very limited:	 	  Very limited:	 	  Very limited:	
· -	į		1.00	! -	1.00	!	1.00
		! -	1.00	! · · · · · · · · · · · · · · · · · · ·	1.00	!	1.00
	l İ	saturated zone	l I	saturated zone	 	saturated zone	
Roliss	12	  Very limited:	i	  Very limited:	i	  Very limited:	i
			1.00		1.00	Depth to	1.00
	 	saturated zone Ponding	1.00	saturated zone Ponding	  1.00	saturated zone Ponding	1.00
Hamre	5	Very limited:	•	Very limited:	•	Very limited:	ļ
	l I	Ponding Depth to	1.00  1.00	· -	1.00  1.00		1.00
		saturated zone		saturated zone		saturated zone	
Kratka		  Very limited:		  Very limited:		  Very limited:	
KIACKA	3 	Depth to	1	! -	1	!	1
	İ	saturated zone	į	saturated zone	į	saturated zone	İ
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
I55A:	! 	! 		! 		 	
Rosewood	75	! -	:	Very limited:	•	Very limited:	ļ
	 	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	! 	!	1.00		1.00	Ponding	1.00
Ulen	10	Somewhat limited:   Depth to	0.44	Very limited:   Depth to	  1.00	Somewhat limited:   Depth to	0.44
	İ	saturated zone	İ	saturated zone		saturated zone	İ
Hamar	   6	  Very limited:	 	  Very limited:	 	  Very limited:	
namar	"	! -	1	:	1	:	1
	İ	saturated zone	į	saturated zone	į	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Rosewood,	! 	! 		! 		 	
depressional	3	Very limited:	•	Very limited:		Very limited:	
			1.00		1.00		11.00
	 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 
<b>6</b>				 		 	
Syrene	3 	Very limited:   Depth to	1.00	Very limited:   Depth to	  1.00	Very limited:   Depth to	1.00
	 	saturated zone		saturated zone		saturated zone	

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	1
	unit   	'	Value	   Rating class and   limiting features		Rating class and limiting features	Value
	ļ	ļ	ļ	ļ	!	!	!
I55A: Karlsruhe	   1 	  Somewhat limited:   Depth to   saturated zone	    0.44 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.44 
Strathcona	   1     	saturated zone	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Thiefriver	   1       	  Very limited:   Depth to   saturated zone	į	  Very limited:   Depth to   saturated zone	į	  Very limited:	    1.00    1.00
I57B:	 	 	l I	 	l I	 	
Sandberg	   50 	  Not limited 	   	  Not limited 	   	  Not limited 	 
Radium	25   	  Not limited   	   	Somewhat limited:   Depth to   saturated zone	  0.96 	  Not limited   	 
Sioux	   8 	  Not limited 	   	  Not limited 	   	  Not limited 	 
Oylen	   7 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.96 	  Not limited   	 
Flaming	   5   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Garborg	   5   	  Somewhat limited:   Depth to   saturated zone	    0.99 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    0.99 
I58A:	 	 	i	! [	i	 	i
Seelyeville	90           	Ponding Depth to saturated zone	  1.00  1.00    1.00		  1.00  1.00    1.00		  1.00  1.00    1.00
Cathro	   3     		  1.00  1.00		  1.00  1.00	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00
Dora	   3         	Depth to saturated zone	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00	   Very limited:   Ponding   Depth to   saturated zone   Content of   organic matter	  1.00  1.00    1.00

Table 20a.--Building Site Development--Continued

component name	Pct.   Dwellings without     of   basements       map			Dwellings with basements		Small commercial   buildings 		
	unit   	'	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
I58A: Markey	     3   	  Very limited:   Ponding   Depth to   saturated zone	      1.00  1.00	!	      1.00  1.00		    1.00  1.00	
Berner	       1	Content of organic matter	1.00     	      Very limited:	     	Content of organic matter	1.00     	
	       	Ponding Depth to saturated zone Content of organic matter	1.00  1.00      1.00	Ponding	1.00  1.00       	Ponding	1.00  1.00    1.00	
I59A: Smiley	   65   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	
Smiley, very cobbly	   10   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00	
Kratka	   9   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00	
Roliss	   5   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00	
Reiner	   4 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00	  Somewhat limited:   Depth to   saturated zone	    0.01	
Linveldt	   3   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 	
Smiley, depressional	   3     	   Ponding   Depth to   saturated zone	  1.00  1.00 	-	  1.00  1.00 		  1.00  1.00	
Strandquist	1   1   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	
I60A: Smiley, depressional	   80 	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00	

Table 20a.--Building Site Development--Continued

Map symbol and component name	Pct. of map unit	basements	ut	Dwellings with basements		Small commercia   buildings 	1
	   		Value	Rating class and   limiting features		Rating class and   limiting features	Value
I60A: Smiley	     10   	    Very limited:   Depth to   saturated zone		: -	      1.00	    Very limited:   Depth to   saturated zone	      1.00
Hamre	     5	Ponding    Very limited:	1.00   	Ponding    Very limited:	1.00   	Ponding    Very limited:	1.00   
	     	Ponding   Depth to   saturated zone	1.00  1.00 	!	1.00  1.00 	!	1.00  1.00 
Kratka	   5   	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00
I61A: Strandquist	     70   	  Very limited:   Depth to   saturated zone   Ponding		saturated zone	•	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Mavie	   8     	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Roliss	   7   	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	•	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Kratka	   5   	  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	  1.00    1.00
Foxhome	   4 	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.01 
Hangaard	   3   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Northwood	   3     	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00 		    1.00  1.00 		  1.00  1.00
I62A: Syrene	   70     	  Very limited:   Depth to   saturated zone   Ponding		  Very limited:   Depth to   saturated zone   Ponding		  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Rosewood	   11     	i	į	    Very limited:	į	  Very limited:	    1.00    1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings	1
	unit 	Rating class and		   Rating class and	Value		Value
	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
I62A:	 	 		 		 	!
Hangaard	l I 5	  Very limited:		  Very limited:		  Very limited:	1
1141194414		Depth to	1.00	! -		Depth to	1.00
	İ	saturated zone	i	saturated zone	i	saturated zone	i
	ĺ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Karlsruhe	   4	  Somewhat limited:		  Very limited:		  Somewhat limited:	
	!	Depth to	0.44	Depth to	1.00	! -	0.44
		saturated zone		saturated zone		saturated zone	
Deerwood	l I3	  Very limited:		  Very limited:		  Very limited:	
	i	Ponding	1.00	! -	1.00	!	1.00
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
	ļ	saturated zone		saturated zone		saturated zone	ļ
Hamar	   3	  Very limited:	l I	  Very limited:	l I	  Very limited:	l I
	i	Depth to	1.00		1.00		1.00
	İ	saturated zone	j	saturated zone	j	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Strandquist	   2	  Very limited:	 	  Very limited:	 	  Very limited:	
_	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
	ĺ	saturated zone	ĺ	saturated zone	ĺ	saturated zone	Ì
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Radium	   1 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.96	  Not limited   	     
	! 	! 	i		i	! 	i
Wyandotte	1	Very limited:	i	Very limited:	i	Very limited:	i
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	!	saturated zone		saturated zone		saturated zone	
	 	Ponding 	1.00 	!	1.00  1.00	Ponding 	1.00
	ļ						
I63A: Thiefriver	l I 70	  Verv limited:	l I	  Very limited:	l I	  Very limited:	
	İ	Depth to	1.00	! - T	1.00	!	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding	1.00	•	1.00  1.00	Ponding	1.00
	! 	! 		Foliding		 	
Espelie	10	! -	:	Very limited:	1	Very limited:	ĺ
		! -	:	! -	1.00	<u> </u>	1.00
	 	!	  1 00	saturated zone Shrink-swell	  1.00	saturated zone Shrink-swell	11.00
	İ	!	:	!	1.00	!	1.00
	_						ļ
Foxlake	7 	Very limited:   Depth to	:	Very limited:   Depth to	:	Very limited:   Depth to	11.00
	 	saturated zone	1 - 00	saturated zone	1	saturated zone	1
	i	!	1.00	!	1.00	!	1.00
	į	!	:	!	1.00	!	1.00
Huot	   5	  Somewhat limited:	 	  Very limited:	 	Somewhat limited:	
	, ,	•	0.01	! -	1	!	0.01
	I		10.0T				
	 	saturated zone		!	1.00	<u> </u>	

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia   buildings 	1
	unit   		•	   Rating class and   limiting features		   Rating class and   limiting features	
I63A: Clearwater,	   	 	   	   	   	 	   
depressional	3       	Ponding Depth to saturated zone	1.00  1.00 	Depth to saturated zone	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00
Rosewood	   3   	Depth to saturated zone	:	saturated zone	    1.00    1.00	saturated zone	  1.00    1.00
Ulen	   1   	  Somewhat limited:   Depth to   saturated zone	!	Very limited: Depth to saturated zone	    1.00 	  Somewhat limited:   Depth to   saturated zone	    0.44 
Wyandotte	   1     	saturated zone	:	saturated zone	!	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I64A:	;   	 	   	   	   	 	į į
Ulen	70     	!	0.44	Very limited:   Depth to   saturated zone	  1.00 	Somewhat limited:   Depth to   saturated zone	0.44
Rosewood	   10   	Depth to saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Flaming	   8   	  Somewhat limited:   Depth to   saturated zone	    0.01 	  Very limited:   Depth to   saturated zone	:	  Somewhat limited:   Depth to   saturated zone	    0.01 
Karlsruhe	   5     	   Somewhat limited:   Depth to   saturated zone	  0.44 	   Very limited:   Depth to   saturated zone	:	  Somewhat limited:   Depth to   saturated zone	0.44
Radium	   3   	  Not limited  - 	     	Somewhat limited:   Depth to   saturated zone	  0.96 	  Not limited   	 
Strathcona	   2     	saturated zone	1.00	saturated zone	1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Thiefriver	2   2 	saturated zone	1.00	!	  1.00    1.00  1.00	saturated zone Ponding	  1.00    1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with basements		Small commercia   buildings 	11
	 	Rating class and		Rating class and limiting features	•		
I65A: Ulen	     70   	•	0.44	  Very limited:   Depth to   saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	      0.44
Rosewood	   10     	Depth to saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Flaming	   6   	  Somewhat limited:   Depth to   saturated zone	0.01	  Very limited:   Depth to   saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Poppleton	   4   	  Somewhat limited:   Depth to   saturated zone	0.01	  Very limited:   Depth to   saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	    0.01 
Karlsruhe	   3 	  Somewhat limited:   Depth to   saturated zone	0.44	  Very limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	    0.44 
Radium	   3 	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	0.96	  Not limited   	     
Strathcona	   2   	saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Thiefriver	   2       	Depth to saturated zone	1.00	Depth to   saturated zone   Shrink-swell	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I66A: Vallers	     75     	Depth to saturated zone	1.00 	saturated zone	1.00 	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Vallers, very cobbly	   7     	Depth to saturated zone	1.00	saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Hamerly	   6   	  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	    1.00 
Grimstad	   3   	  Somewhat limited:   Depth to   saturated zone	0.99	  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	    0.99 
Mavie	   3     	saturated zone		saturated zone	•	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00

Table 20a.--Building Site Development--Continued

Map symbol and component name	Pct. of map	basements	out	Dwellings with basements	L	Small commercia   buildings	11
	unit   	'		Rating class and   limiting features		   Rating class and   limiting features	Value
I66A: Roliss, depressional	     3   	    Very limited:   Ponding   Depth to   saturated zone	1.00	  Very limited:   Ponding   Depth to   saturated zone	1.00	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00
Strathcona	   3   	  Very limited:   Depth to   saturated zone   Ponding		  Very limited:   Depth to   saturated zone   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
I67A: Wheatville	     70   	  Very limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone   Shrink-swell	    1.00    1.00	  Very limited:   Depth to   saturated zone	      1.00 
Augsburg	   13       	  Very limited:   Depth to   saturated zone   Ponding		  Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00
Glyndon	   8 	  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00
Foxlake	   5     	Very limited:   Depth to   saturated zone   Shrink-swell   Ponding			1.00    1.00	Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	  1.00    1.00  1.00
Hilaire	   2   	  Somewhat limited:   Depth to   saturated zone 	    0.01   	  Very limited:   Shrink-swell   Depth to   saturated zone	•	  Somewhat limited:   Depth to   saturated zone 	    0.01   
Ulen	   2   	  Somewhat limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone		  Somewhat limited:   Depth to   saturated zone	    0.44 
I69A: Wyandotte	   65     	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	saturated zone	  1.00    1.00  1.00	saturated zone	  1.00    1.00
Foxlake	   10       	   Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	  1.00    1.00  1.00	saturated zone Shrink-swell	  1.00    1.00  1.00	   Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	  1.00    1.00  1.00
Espelie	8   8     	  Very limited:   Depth to   saturated zone   Shrink-swell   Ponding	  1.00    1.00  1.00	saturated zone	  1.00    1.00  1.00	saturated zone Shrink-swell	  1.00    1.00  1.00

Table 20a.--Building Site Development--Continued

component name	Pct. of map	basements	ut	Dwellings with basements		Small commercia	ıl
	unit	'		 		 	
	l arre		172   116	Rating class and	l Walue	Dating class and	Value
	! 	limiting features	•	limiting features			
			Ī		ĺ		Ī
I69A:			ļ				ļ
Clearwater,	_		!				!
depressional	5			Very limited:		Very limited:	
	 		1.00		1.00		11.00
	 	Depth to saturated zone	1	Depth to saturated zone	1.00	saturated zone	1.00
	 	Shrink-swell	1	Shrink-swell	1 1.00	Shrink-swell	1 1.00
	i						
Thiefriver	5	Very limited:	•	Very limited:	•	Very limited:	1
		Depth to	1.00	<u>.                                      </u>	1.00		1.00
	!	saturated zone	!	saturated zone	ļ	saturated zone	!
		Ponding	1.00	!	1.00	Ponding	1.00
	 	 	!	Ponding	1.00	  -	1
Karlsruhe	l   4	  Somewhat limited:		  Very limited:	i i	  Somewhat limited:	1
	i -	Depth to	0.44		1.00	•	0.44
	i	saturated zone	i	saturated zone	i	saturated zone	i
	į	İ	į	İ	į	İ	į
Syrene	3	Very limited:	•	Very limited:	•	Very limited:	!
	!	Depth to	1.00	<u>.                                      </u>	1.00	!	1.00
		saturated zone		saturated zone		saturated zone	1
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
I70A:	! 	 	1	 	i	 	i
Strathcona	70	  Very limited:	i	  Very limited:	i	  Very limited:	i
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
	ĺ	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Kratka	   10	 		 		  Very limited:	!
Kratka	I I 10	Depth to	1 1.00	Very limited:   Depth to	1	!	1 1.00
	l I	saturated zone	1	saturated zone	1	saturated zone	1
	! 	Ponding	1	1	1	•	1
	į		i		i		i
Roliss	6	Very limited:		Very limited:		Very limited:	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Grimstad	l I 5	  Somewhat limited:		  Very limited:	l I	  Very limited:	1
02 <b>2</b> 0 0 0 0		Depth to	0.99		1.00	!	0.99
	<u> </u>	saturated zone		saturated zone		saturated zone	i
		!	[	!		!	1
Mavie	3	Very limited:	!	Very limited:		Very limited:	!
		Depth to	1.00		1.00		1.00
	 	saturated zone Ponding	11.00	saturated zone Ponding	  1.00	saturated zone Ponding	11.00
	 	Ponding	1	Ponding	1	Ponding	1
Rosewood	3	  Very limited:	i	  Very limited:	i	  Very limited:	i
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	1
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Chushhasas							[
Strathcona, depressional	   २	  Very limited:	 	  Very limited:	 	  Very limited:	 
	i	Ponding	1		1	Ponding	1
	i	Depth to	11.00		11.00		11.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	:		1		1	i	

Table 20a.--Building Site Development--Continued

component name	Pct. of map unit	basements	ut	Dwellings with basements	ı	Small commercia   buildings 	1
	unitc   	'	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
	ļ	!	ļ	!	!	!	ļ
I71A: Berner, ponded	   45 	Ponding	1.00	!	1.00	!	1   1.00
	     	saturated zone	1.00    1.00 	saturated zone	1.00     	Depth to saturated zone Content of organic matter	1.00    1.00 
Cathro, ponded	   45   	Ponding Depth to	    1.00  1.00	Depth to	  1.00  1.00	Depth to	  1.00  1.00
	 	saturated zone	 	saturated zone		saturated zone	
Hamre	2     	Very limited: Ponding Depth to saturated zone	  1.00  1.00	!	  1.00  1.00	!	  1.00  1.00
Kratka	   2 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00 
	 	Ponding	1.00	Ponding	1.00	Ponding	1.00
Northwood	2     	Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00	!	  1.00  1.00	!	  1.00  1.00
Roliss	   2   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00
Seelyeville, ponded	     2 	    Very limited:   Ponding	į	  Very limited:	į	  Very limited:	      1.00
	     	Depth to saturated zone Content of organic matter	1.00    1.00 	saturated zone	1.00    1.00 	Depth to saturated zone Content of organic matter	1.00    1.00
172A:	 	 	 	 	 	 	
Pelan	65   	•	  0.01 	   Very limited:   Depth to   saturated zone	1.00	Somewhat limited:   Depth to   saturated zone	  0.01 
Smiley	   10   			  Very limited:   Depth to   saturated zone   Ponding	:	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Linveldt	     8 	  Somewhat limited:	i I	  Very limited:	į	    Somewhat limited:	      0.01
Kratka	5     	  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	    1.00    1.00

Table 20a.--Building Site Development--Continued

Map symbol and component name	Pct. of map	basements	ut	   Dwellings with   basements 		   Small commercia   buildings 	1
	unit	•				İ	
			•	Rating class and			Value
	L	limiting features	<u> </u>	limiting features	l	limiting features	<u> </u>
I72A:	i			İ	i		i
Strandquist	5	! -		Very limited:	:	Very limited:	[
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	saturated zone   Ponding	1 1.00	1	1.00		1 1.00
	i						
Reiner	4	Somewhat limited:		Very limited:	1	Somewhat limited:	ļ
		Depth to saturated zone	0.01	Depth to saturated zone	1.00	Depth to saturated zone	0.01
		sacuraced zone		saturated zone	 	saturated zone	
Eckvoll	3	Somewhat limited:	į	Very limited:	į	Somewhat limited:	į
		Depth to	0.01		1.00	Depth to	0.01
	 	saturated zone		saturated zone	l I	saturated zone	
I73A:	i	 	i		İ	 	i
Boash	75		İ	Very limited:		Very limited:	İ
	ļ	Depth to	1.00		1.00		1.00
	l I	saturated zone Shrink-swell	1.00	saturated zone Ponding	1.00	saturated zone Shrink-swell	1
	i	Ponding	1.00			Ponding	1.00
	ļ		[	[			ļ.
Clearwater	8	Very limited:   Depth to	•	Very limited:   Depth to		Very limited:   Depth to	1.00
	 	saturated zone	1	saturated zone	1.00	saturated zone	1
	i	Shrink-swell	1.00	1	1.00	Shrink-swell	1.00
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
Roliss	l I Ω	  Very limited:		  Very limited:	l I	  Very limited:	
ROTIDD	İ	Depth to	1.00		1.00	! -	1.00
	į	saturated zone	į	saturated zone	İ	saturated zone	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Clearwater,	l I	 	 	 	l I	 	 
depressional	5	  Very limited:	i	Very limited:	i	  Very limited:	i
	ļ	Ponding	1.00	!	1.00	!	1.00
		Depth to saturated zone	1.00	! -	1.00	Depth to saturated zone	1.00
	 	saturated zone   Shrink-swell	1 1.00	saturated zone Shrink-swell	1.00		1 1.00
	i	İ	i		İ	İ	i
Kittson	2	Somewhat limited:		Very limited:		Somewhat limited:	
	l I	Depth to saturated zone	0.01	Depth to saturated zone	1.00	Depth to saturated zone	0.01
	i		i		İ		i
Newfolden	2	Somewhat limited:	İ	Very limited:	Ì	Somewhat limited:	İ
		Depth to	0.01		1.00	! -	0.01
	 	saturated zone		saturated zone	 	saturated zone	
174A:	i	İ	i	İ	İ	İ	i
Urban land	65	Not rated	!	Not rated		Not rated	ļ
Endoaquents	   35	  Not rated		  Not rated	l I	  Not rated	!
Endoaquencs	33	 	i		İ		i
I75A:	İ	İ	İ	İ	İ	İ	İ
Radium	40	Not limited		Somewhat limited:	!	Not limited	!
	 	 	I I	Depth to saturated zone	0.96 	 	
	i	İ	i		İ	İ	İ
Sandberg	20	Not limited	!	Not limited	ļ	Not limited	ļ
	I	I	I	I	l	I	I

Table 20a.--Building Site Development--Continued

component name	Pct.   of  map  unit	basements	- 1		Dwellings with basements		al
	   	Rating class and limiting features		Rating class and limiting features		Rating class and   limiting features	Value
I75A:	 	 		 		  -	
Garborg	l I 15	  Somewhat limited:		  Very limited:		  Very limited:	-
Garborg	13	Depth to	0.99		•	Depth to	0.99
		saturated zone		saturated zone		saturated zone	
Oylen	   10   	  Not limited   	     	  Somewhat limited:   Depth to   saturated zone	    0.96 	  Not limited   	
Flaming	   5 	Depth to	0.01		    1.00	!	0.01
		saturated zone		saturated zone		saturated zone	
Karlsruhe	   3	  Somewhat limited:		  Very limited:		  Somewhat limited:	
	 	Depth to saturated zone	0.44	Depth to saturated zone	1.00 	Depth to saturated zone	0.44
Venlo	   3	  Very limited:	,	  Very limited:	•	  Very limited:	ļ
			1.00		•	Ponding	1.00
	   	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Hangaard	2	  Very limited:	i	  Very limited:		  Very limited:	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
Sioux	   2	  Not limited		  Not limited		  Not limited	
M-W:	 	 		 		 	
Miscellaneous water	100 	Not rated		Not rated		Not rated	
W: Water	    100	    Not rated	   	    Not rated	   	    Not rated	

## Table 20b.--Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

component name	Pct. of map	streets	d	Shallow excavati   	ons	Lawns and landsca	aping
	unit 	Rating class and		Rating class and	•	-	
	<u> </u>	limiting features		limiting features	<u> </u>	limiting features	1
B109A:	l	 	1	 	ŀ	 	i
Bowstring	45	Very limited:	i	Very limited:	i	Very limited:	i
	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
	İ	Depth to	1.00	Flooding	1.00	Flooding	1.00
		saturated zone		Depth to	1.00	Content of	1.00
		Frost action	1.00	saturated zone		organic matter	
		Flooding	1.00	Cutbanks cave		Depth to	1.00
	 	 	 	Content of organic matter	1.00 	saturated zone	
Fluvaquents	   40	  Verv limited:		  Very limited:		  Very limited:	
1 14 44401105		Ponding	1.00	! -		Ponding	1.00
	i	Depth to	1.00	!	1.00	_	1.00
	i	saturated zone		Depth to	1.00	_	1.00
	i	Frost action	1.00	saturated zone	i	saturated zone	i
	į	Flooding	1.00	Cutbanks cave	1.00		į
Hapludalfs	5	  Very limited:		  Very limited:		  Very limited:	
		Frost action	1.00	Slope	1.00	Slope	1.00
		Slope	1.00	Depth to	1.00		
		Low strength	1.00				
	 	Shrink-swell Flooding	0.50 0.40	Cutbanks cave	0.10 		
Seelyeville		Vory limited.	İ	    Very limited:	į	    Very limited:	į
beeryeville		Ponding	11.00	! -	1.00	_	1
	i	Depth to	11.00	!	1.00		11.00
	i	saturated zone		Depth to	1.00	_	1.00
	i	Frost action	1.00	saturated zone	i	saturated zone	i
	İ	Flooding	1.00	Content of	1.00		İ
	į	İ	į	organic matter	į		İ
		  -		Cutbanks cave	0.10	 	
Water	   5 	  Not rated 	į	  Not rated 	į	  Not rated 	į
B200A:	İ	İ	į	İ	į	İ	i
Garnes	70			Very limited:	!	Not limited	ļ
	ļ	Frost action	1.00		1.00		!
	 	Low strength	0.78 	saturated zone Cutbanks cave	  0.10	 	
Chilgren	   13	  Verv limited:	 	  Very limited:	 	  Very limited:	 
CIIIIGICII	1 -3	Depth to	1.00	•		Depth to	1.00
	i	saturated zone		saturated zone		saturated zone	
	i	Frost action	1.00		1.00	•	1.00
	i	Ponding	1.00		0.10		i
	į	Low strength	0.78	İ	į		į
Eckvoll	5	  Somewhat limited:		  Very limited:		  Not limited	
		Frost action	0.50	Cutbanks cave	1.00		
		[	1	! -	1.00		1
				saturated zone			

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	đ	   Shallow excavati     	ons	   Lawns and landsca     	ping
	   		Value	Rating class and   limiting features		Rating class and   limiting features	Value
B200A: Garnes, very stony	       5	    Very limited:	   	    Very limited:	   	    Somewhat limited:	
Garnes, very scony	     	• -	1.00  0.78	Depth to	1.00	•	0.01
Grygla	   4       	   Very limited:   Depth to   saturated zone   Frost action   Ponding	  1.00    1.00  1.00	saturated zone Cutbanks cave	  1.00    1.00  1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Pelan	   3     	   Somewhat limited:   Low strength   Frost action	  0.78  0.50 	!	  1.00  1.00 	  Not limited       	         
B201A: Chilgren	   75         	   Very limited:   Depth to   saturated zone   Frost action   Ponding   Low strength	  1.00    1.00  1.00  0.78	saturated zone Ponding	  1.00    1.00  0.10	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00 
Garnes	   9     	  Very limited:   Frost action   Low strength 	  1.00  0.78 	! -	  1.00    0.10	  Not limited       	       
Grygla	   5     	Very limited:   Depth to   saturated zone   Frost action   Ponding	  1.00    1.00  1.00	saturated zone Cutbanks cave	  1.00    1.00  1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Grygla, depressional	   5       	  Very limited:   Ponding   Depth to   saturated zone   Frost action	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00 
Hamre	   5         	  Very limited:   Ponding   Depth to   saturated zone   Frost action   Low strength	  1.00  1.00    1.00  0.78	Depth to saturated zone	  1.00  1.00    0.10	  Very limited:   Ponding   Content of   organic matter   Depth to   saturated zone	  1.00  1.00    1.00
Pelan	   1     	Somewhat limited:   Low strength   Frost action	  0.78  0.50 	Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  1.00 	  Not limited     	       

Table 20b.--Building Site Development--Continued

	Pct. of	Local roads an	đ	Shallow excavati 	ons	Lawns and landsca	ping
	map	 				 	
	unit   		Value	Rating class and   limiting features	Value	Rating class and limiting features	Value
			1				
B202A: Cathro	   80	  Very limited:	 	  Very limited:	 	  Very limited:	 
	ļ	Ponding	1.00	!	1.00		1.00
		Depth to	1.00	!	1.00	Content of	1.00
	 	saturated zone Frost action	1	saturated zone Content of	1	organic matter Depth to	11.00
	 	Low strength	0.78	!	1	saturated zone	1
				Cutbanks cave	0.10		į
Hamre	   8	  Very limited:		  Very limited:	 	  Very limited:	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	! -	1.00	Content of	1.00
		saturated zone		saturated zone		organic matter	
	 	Frost action   Low strength	1.00  0.78		0.10 	Depth to saturated zone	1.00
Chilgren	   3	  Very limited:	 	  Very limited:	 	  Very limited:	
• • • • • • • • • • • • • • • • • • •	İ	Depth to	1.00	! -	1.00		1.00
	ĺ	saturated zone	Ì	saturated zone	Ì	saturated zone	Ì
		Frost action	1.00	!	1.00	Ponding	1.00
		Ponding	1.00		0.10		ļ
	 	Low strength	0.78 	 	 	 	
Northwood	3	Very limited:	İ	Very limited:	İ	Very limited:	ĺ
		Ponding	1.00	!	1.00	Ponding	1.00
		Depth to	1.00	! -	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	!
		Frost action Low strength	1.00  0.78	!	1.00 	 	
Berner	   2	  Very limited:	 	  Very limited:	 	  Very limited:	 
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Content of	1.00
	ļ	saturated zone		saturated zone		organic matter	
		Frost action	1.00	!	11.00	Depth to	1.00
		 		Content of   organic matter	1.00 	saturated zone 	
Grygla	   2	  Very limited:	 	  Very limited:	 	  Very limited:	
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Frost action	1.00	•	1.00	Ponding	1.00
	 	Ponding 	1.00 	Ponding	1.00 	 	 
Seelyeville	2	Very limited:	Ì	Very limited:	Ì	Very limited:	Ì
		Ponding	1.00		1.00	Ponding	1.00
		Depth to	1.00	! -	1.00	Depth to	1.00
		saturated zone Frost action	11.00	saturated zone Content of	  1.00	saturated zone	!
	 	FIOSE ACCION	1	organic matter	1	 	¦
	į		ļ	Cutbanks cave	0.10		į
B203A:		 	 	 		 	
Northwood	75	Very limited:	1	Very limited:		Very limited:	
	ļ	Ponding	1.00	Ponding	1.00	Ponding	1.00
	ļ	Depth to	1.00	! -	1.00	Depth to	1.00
		saturated zone	11 00	saturated zone	1 00	saturated zone	1
		Frost action  Low strength	1.00  0.78	•	1.00	I 	1
	:		1	! !	1	! !	1

Table 20b.--Building Site Development--Continued

Map symbol and component name	Pct. of map	streets	d	Shallow excavati   	ons	Lawns and landsca	ping
	unit   	Rating class and	,	   Rating class and   limiting features			
B203A:	 	 		 		 	
	10	Very limited:		Very limited:		Very limited:	į
			1.00	!	1.00		1.00
	i	saturated zone		saturated zone		organic matter	
		Frost action   Low strength	1.00  0.78	•	0.10	Depth to saturated zone	1.00
		Low strength		 		saturated zone	
Grygla	7	! -	:	Very limited:	:	Very limited:	
		Depth to saturated zone	11.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	į	Frost action	:	!	:	Ponding	1.00
		Ponding 	1.00 	Ponding 	1.00 	 	
Berner	5	Very limited:	i	  Very limited:	i	Very limited:	i
		Ponding Depth to	1.00	Ponding Depth to	1.00	!	1.00
	i	saturated zone		saturated zone		organic matter	
	ĺ	Frost action	1.00	Cutbanks cave	1.00	! -	1.00
		 		Content of organic matter	1.00	saturated zone	
en d 1		 	İ	 	İ	 	
Chilgren	3	Very limited:   Depth to	:	Very limited:   Depth to	1	Very limited:   Depth to	11.00
	i	saturated zone	į	saturated zone	į	saturated zone	İ
		Frost action   Ponding	1.00	!	1.00	!	1.00
	ŀ	Low strength	0.78	!		! 	
B204A:		 		 		 	
Roliss	75	  Very limited:		  Very limited:	i	  Very limited:	
		Depth to	1.00	Depth to	1.00	! -	1.00
	 	saturated zone Frost action	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
	į		1.00	!	0.10	į	į
		Low strength	0.78 	 		 	
Grygla	8	Very limited:	i	  Very limited:	i	  Very limited:	İ
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00		1.00	Ponding	1.00
		Ponding	1.00	Ponding	1.00		
Chilgren	5	  Very limited:		  Very limited:		  Very limited:	
	į	Depth to	1.00	!	1.00	! -	1.00
		saturated zone Frost action	  1.00	saturated zone Ponding	1.00	saturated zone Ponding	11.00
	i	Ponding	1.00	!	0.10		
		Low strength	0.78				
Garnes	   5	  Very limited:		  Very limited:		  Not limited	
		Frost action	1.00	! -	1.00		
		Low strength	0.78 	saturated zone Cutbanks cave	  0.10	 	1
Dolina democrate 1	-	 		 		 	
Roliss, depressional	5	Very limited:   Ponding	  1.00	Very limited:   Ponding	1.00	Very limited:   Ponding	1.00
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone Frost action	  1.00	saturated zone Cutbanks cave	0.10	saturated zone	
		Low strength	0.78	!			
			1		1		

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	d	Shallow excavati   	ons	Lawns and landsca	ping
	unit   	'	Value	   Rating class and   limiting features	•	   Rating class and   limiting features	Value
			Ī		Ī		Ī
B204A:							1
Hamre	2	Very limited:	:	Very limited:	:	Very limited:	!
	ļ	!	1.00	!	1.00		1.00
		Depth to	1.00	Depth to saturated zone	1.00	Content of   organic matter	1.00
	 	saturated zone Frost action	1		  0.10		1 1.00
	i	Low strength	0.78	!	1	saturated zone	1
	i	İ	i		i		i
B205A:	į	İ	İ	İ	į		İ
Berner	80	Very limited:		Very limited:		Very limited:	1
		Ponding	1.00	Ponding	1.00	Ponding	1.00
	ļ	Depth to	1.00	<u>.                                      </u>	1.00	!	1.00
	ļ	saturated zone		saturated zone		organic matter	
		Frost action	1.00	!	11.00	Depth to	11.00
		l I		Content of organic matter	1.00	saturated zone	-
		 	1	Organic maccer		 	1
Northwood	7	  Very limited:	i	  Very limited:	i	  Very limited:	i
	i	! -	1.00	! -	1.00	Ponding	1.00
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	1
		Frost action	1.00		1.00		
	ļ	Low strength	0.78		ļ		ļ
Grygla							!
Grygia	5 	Very limited:   Depth to	1	Very limited:   Depth to	  1.00	Very limited:   Depth to	1
	 	saturated zone	1	saturated zone	1	saturated zone	1
		Frost action	1	!	1	!	11.00
	İ	Ponding	1.00	!	1.00		i
	ĺ	İ	İ	İ	ĺ	ĺ	İ
Cathro	3	Very limited:		Very limited:		Very limited:	
	ļ	Ponding	1.00	!	1.00		1.00
		Depth to	1.00	<u>.                                      </u>	1.00	!	1.00
	 	saturated zone Frost action	1 1.00	saturated zone Content of	1	organic matter Depth to	1 1.00
	 	Low strength	0.78	!	1	saturated zone	1
	i			Cutbanks cave	0.10		i
	į	İ	į	İ	į	İ	İ
Hamre	3	Very limited:		Very limited:		Very limited:	
	ļ	Ponding	1.00		1.00		1.00
		Depth to	1.00	Depth to	1.00	Content of	1.00
		saturated zone Frost action	1 1.00	saturated zone Cutbanks cave	  0.10	organic matter Depth to	1
	 	Low strength	0.78	•	10.10	saturated zone	1
	i	İ	i	! 	i		i
Seelyeville	2	Very limited:	İ	Very limited:	į	Very limited:	İ
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00		1.00		1.00
	ļ	saturated zone		saturated zone		saturated zone	ļ
		Frost action	1.00	!	1.00	 	!
	l I	 		organic matter Cutbanks cave	  0.10	 	 
	i	! 	i	Cachains cave		! 	1
B206A:	i	İ	i		i		i
	80	  Very limited:	İ	  Very limited:	į	  Very limited:	i
		Ponding	1.00		1.00		1.00
		Depth to	1.00	Depth to	1.00	Content of	1.00
	ļ	saturated zone	İ	saturated zone	ļ	organic matter	ļ
	ļ	Frost action	1.00	'	0.10	_	1.00
	1	Low strength	0.78	I		saturated zone	1

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	   Shallow excavati   	ons	   Lawns and landsca   	ping
	unit   	'	•	   Rating class and   limiting features		Rating class and limiting features	
B206A: Chilgren	   8   8     	saturated zone Frost action	    1.00    1.00  1.00	saturated zone Ponding	    1.00    1.00  0.10	saturated zone	    1.00    1.00
Northwood	   5         	  Very limited:   Ponding   Depth to   saturated zone   Frost action	1.00  1.00 	  Very limited:   Ponding   Depth to   saturated zone   Cutbanks cave	    1.00  1.00    1.00	!	    1.00  1.00 
Cathro	   3         	Ponding Depth to saturated zone Frost action	1.00  1.00    1.00	Depth to saturated zone Content of organic matter	1.00  1.00 	Content of   organic matter   Depth to   saturated zone	  1.00  1.00    1.00
Grygla	   2       	saturated zone Frost action	:	saturated zone Cutbanks cave	  1.00    1.00  1.00	saturated zone Ponding	  1.00    1.00
Roliss	   2         	saturated zone Frost action Ponding	  1.00    1.00  1.00  0.78	saturated zone Ponding Cutbanks cave	  1.00    1.00  0.10	saturated zone	  1.00    1.00 
B207A: Pelan	     70     	!	    0.78  0.50	!	    1.00  1.00	  Not limited   	         
Chilgren	   10         	Depth to saturated zone Frost action Ponding	1.00	saturated zone Ponding Cutbanks cave	  1.00    1.00  0.10	saturated zone	  1.00    1.00 
Garnes	   10     	Frost action	  1.00  0.78	saturated zone	  1.00    0.10	  Not limited     	     
Eckvoll	   5     	  Somewhat limited:   Frost action   	    0.50     	!	    1.00  1.00 	  Not limited     	

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	   Shallow excavati   	ons	   Lawns and landsca     	ping
	 	'		Rating class and limiting features		Rating class and limiting features	
D2073 -							
B207A: Grygla	   5 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	1
	   	saturated zone Frost action Ponding	  1.00  1.00		  1.00  1.00	saturated zone Ponding	  1.00
B208A:	į						į
Grygla	   75	  Vory limited:		  Very limited:		  Very limited:	!
GI YGIA	/3   	Depth to   saturated zone	1.00	! -	1.00	! -	1.00
	i I	Frost action Ponding	1.00  1.00	Cutbanks cave	1.00  1.00	Ponding	1.00
Chilgren	   10	! - T		  Very limited:		  Very limited:	
	 	Depth to saturated zone	į	Depth to saturated zone	į	Depth to saturated zone	1.00
	   	Frost action   Ponding   Low strength	1.00  1.00  0.78	Cutbanks cave	1.00  0.10 	Ponding   	1.00
Eckvoll	   5   	  Somewhat limited:   Frost action   	    0.50 	  Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  1.00	  Not limited     	       
Grygla, depressional	   5	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00
	     	Depth to   saturated zone   Frost action	1.00	Depth to saturated zone	1.00	!	1.00
Northwood	   5 	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	1   1.00
	       	Depth to saturated zone Frost action Low strength	1.00    1.00  0.78	saturated zone Cutbanks cave	1.00    1.00	Depth to saturated zone	1.00     
B209A:	 	 	 	 	 	 	 
Seelyeville	90           	Very limited:   Ponding   Depth to   saturated zone   Frost action	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00    0.10	Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00   
Cathro	     3	    Very limited:	   	Cutbanks cave    Very limited:	İ	    Very limited:	   
	     	Ponding   Depth to   saturated zone   Frost action	1.00  1.00    1.00	Depth to saturated zone	1.00  1.00    1.00	Ponding   Content of   organic matter   Depth to	1.00  1.00    1.00
	 	Low strength	0.78	organic matter Cutbanks cave	0.10	saturated zone	 

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	d	   Shallow excavati   	ons	   Lawns and landsca   	ping
	unit		Value	Rating class and	Value	Rating class and	Value
	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
B209A:	 	 		 		 	
Dora	3	  Very limited:	i	  Very limited:	i	  Very limited:	i
j	İ	Ponding	1.00	Ponding	1.00	Ponding	1.00
		_	1.00	! -	1.00	•	1.00
		saturated zone		saturated zone		organic matter	
	 	Frost action	11.00	Content of organic matter	1.00	Depth to saturated zone	1.00
	l I	 		! -	0.88	!	1
			ļ	!	0.10	!	į
Markey	   3	  Very limited:	 	  Very limited:	 	  Very limited:	
		Ponding		Ponding	1.00	Ponding	1.00
		· -	1.00	! -	1.00	Content of	1.00
		saturated zone		saturated zone		organic matter	
	 	Frost action	11.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
	 			organic matter		saturated zone	
Berner	   1	  Very limited:	 	  Very limited:	 	  Very limited:	l I
	į	Ponding	•	Ponding	•	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Content of	1.00
		saturated zone	!	saturated zone	!	organic matter	!
		Frost action	1.00	Cutbanks cave	11.00	Depth to	1.00
	 		 	Content of organic matter		saturated zone	
B210A:	 	 	 	 	 	 	
Eckvoll	70	Somewhat limited:	į	Very limited:	į	Not limited	İ
		Frost action	0.50	Cutbanks cave	1.00	<u> </u>	1
			ļ	! -	1.00		!
	 		 	saturated zone	 	 	
Chilgren	12	Very limited:	į	Very limited:	į	Very limited:	İ
		Depth to	1.00	Depth to		Depth to	1.00
		saturated zone		saturated zone	!	saturated zone	
	 	•			1.00  0.10		1.00
			0.78	•			
Grygla	   8	  Very limited:	 	  Very limited:	 	  Very limited:	
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		•	•	•	:	Ponding	1.00
	 	Ponding 	1.00 	Ponding 	1.00 	 	
Garnes	7	Very limited:	:	Very limited:	!	Not limited	İ
	 		:	! -	1.00	 	!
	! 	Low strength	0.78 	!	0.10	 	ŀ
Pelan	   3	Somewhat limited:	 	  Very limited:	 	  Not limited	
	i	•		! -	1.00	!	i
!	i		:	:	1.00	!	i
	l	FIOSC ACCION	10.30	Depth to	1	I	1

Table 20b.--Building Site Development--Continued

component name	Pct. of map	Local roads an streets	d	   Shallow excavati   	ons	   Lawns and landsca   	ping
	unit		Value	Rating class and limiting features	Value	   Rating class and   limiting features	Value
			<u> </u>		1		1
B211A: Berner, ponded	   45	<u> </u>	    1.00	  Very limited:   Ponding	      1.00	  Very limited:   Ponding	      1.00
	   	!	1.00	!	1.00	Content of   organic matter	11.00
	     	Frost action     	1.00   	Cutbanks cave   Content of   organic matter	1.00  1.00 	Depth to   saturated zone   	1.00     
Cathro, ponded	   45 		1.00	  Very limited:   Ponding	1	  Very limited:   Ponding	11.00
	 	Depth to saturated zone	1.00	-	1.00	Content of organic matter	1.00
	   		1.00  0.78 	!	1.00    0.10	Depth to saturated zone	1.00   
Chilgren	   2 	<u>.                                      </u>	1   1.00		1.00	!	1.00
	   	Ponding	  1.00  1.00  0.78	Cutbanks cave	  1.00  0.10	saturated zone   Ponding   	  1.00 
Grygla	   2 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00
	   		  1.00  1.00		  1.00  1.00	saturated zone Ponding	  1.00 
Hamre	   2 	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	1   1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Content of   organic matter	1.00
	   	!	1.00  0.78	!	0.10	Depth to saturated zone	1.00
Northwood	2	!	1.00	!	1.00	!	1.00
	     	Depth to saturated zone Frost action Low strength	1.00    1.00  0.78	saturated zone	1.00    1.00	Depth to   saturated zone   	1.00
Seelyeville, ponded	   2 	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00
	   	Depth to saturated zone Frost action	1.00    1.00	Depth to   saturated zone   Content of	1.00    1.00	Depth to saturated zone	1.00
	     	Flost action		content or   organic matter   Cutbanks cave	0.10	   	
I1A:	 	[ 		 		[ 	
Augsburg	75 	Very limited: Depth to	1.00	! -	1.00	Very limited:   Depth to	1.00
	   	!	  1.00  1.00	saturated zone Cutbanks cave Ponding	  1.00  1.00	saturated zone Ponding	  1.00 
	 	 		Too clayey	0.50	 	

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	Shallow excavati	ons	Lawns and landsca	ping
	unit   	Rating class and		   Rating class and   limiting features			Value
I1A: Borup	   10	  Vorm limited:		  Very limited:		  Very limited:	
BOI up	1 10	Depth to	1		:	Depth to	1
	i	saturated zone		saturated zone		saturated zone	
	i	Frost action	1.00	Ponding	1.00	Ponding	1.00
	ĺ	Ponding	1.00	Cutbanks cave	0.10	İ	Ì
	_		ļ		ļ		ļ
Foxlake	5 	Very limited:   Depth to	1.00	Very limited:   Depth to	  1.00	Very limited:   Depth to	11.00
	 	saturated zone	1	saturated zone	1	saturated zone	1
	i	!	1.00	!	1.00	!	1.00
	i	!	1.00	!	0.50	!	i
	į	Shrink-swell	1.00	Cutbanks cave	0.10	İ	İ
		Ponding	1.00	[		[	ļ
	ļ		ļ		ļ		ļ
Augsburg, depressional		  Very limited:		 		  Very limited:	!
depressional	3 		11.00	Very limited:   Ponding	1.00	! -	1 1.00
	i			!	11.00	!	11.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	İ	Frost action	1.00	Too clayey	0.50	İ	İ
	ļ		ļ	Cutbanks cave	0.10	!	ļ
***		 					
Wheatville	3 	Very limited:   Frost action	1.00	Very limited:   Depth to	1.00	Somewhat limited:   Depth to	  0.90
		Depth to	0.90	! -	1	saturated zone	10.30
	i	saturated zone		Too clayey	0.50		i
	İ	İ	j	Cutbanks cave	0.10	İ	į
			ļ		ļ		ļ
Glyndon	2	Very limited:	:	Very limited:	:	Very limited:	11 00
	 	Depth to saturated zone	1	Depth to saturated zone	1	Depth to saturated zone	1.00
	i		11.00	!	1	Bacuraced Zone	i
	i		i		i	<u> </u>	i
Espelie	1	Very limited:	Ì	Very limited:	ĺ	Very limited:	ĺ
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	ļ	saturated zone		saturated zone		saturated zone	
		!	1.00	!	1.00  1.00		1.00
	l I		1.00  1.00	· -	0.50	 	1
	i	!	1.00	!		! 	i
	j	İ	İ	İ	j	İ	İ
Hattie	1	Very limited:		Very limited:		Very limited:	
				! -	1.00		1.00
	ļ		1.00			Depth to	0.10
		'	0.50	•	1.00  0.50	•	!
	 	saturated zone	10.10	Too Clayey	0.50	 	1
	i		İ	İ	i		i
I3A:	İ	İ	İ	İ	İ	İ	İ
Berner	80	<u> </u>	:	Very limited:	!	Very limited:	ļ
			1.00	· -	1.00		1.00
	 	<u> </u>	11.00	! -	11.00	Content of	1.00
	 	saturated zone Frost action	l   1 . 00	saturated zone Cutbanks cave	l   1 . 00	organic matter Depth to	1.00
	¦	1 21020 4001011	1	Content of	1.00	<u> </u>	1
	i		i	organic matter			i
	i	i i	i	i	i	i	i

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	   Shallow excavati     	ons	Lawns and landscaping	
	   	Rating class and		Rating class and limiting features			
			ļ	<u> </u>	ļ	<u> </u>	ļ
I3A: Northwood	   7 	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00
	     	saturated zone Frost action	1.00    1.00  0.78	saturated zone Cutbanks cave	1.00    1.00 	saturated zone	1.00     
Kratka	   5	  Very limited:		  Very limited:	 	  Very limited:	
		Depth to saturated zone	į	Depth to saturated zone	į	Depth to saturated zone	11.00
	     	_	:	Ponding	1.00	Ponding     	1.00   
Hamre	   3 	  Very limited:   Ponding	:	  Very limited:   Ponding		  Very limited:   Ponding	1.00
	 	saturated zone	į	saturated zone	į	Content of   organic matter	1.00
	   	Frost action   Low strength 	0.78	!	   	Depth to   saturated zone 	1.00   
Strathcona	   3 	  Very limited:   Depth to	:	  Very limited:   Depth to	:	  Very limited:   Depth to	  1.00
	     	_	  1.00  1.00  0.78	Ponding	  1.00  1.00	!	  1.00   
Seelyeville	2	  Very limited:		  Very limited:		  Very limited:	
	         	Ponding   Depth to   saturated zone   Frost action 	1.00  1.00    1.00 	!	1.00  1.00    1.00    0.10	Depth to saturated zone	1.00  1.00     
I4A:	 	 		 		 	
Berner	30	  Very limited:	i	  Very limited:	•	  Very limited:	i
	   	!	1.00  1.00 		1.00  1.00 	Ponding   Content of   organic matter	1.00  1.00 
	     	Frost action	1.00	Cutbanks cave Content of organic matter	1.00  1.00 	Depth to saturated zone	1.00
Rosewood,	 	 		! 		 	i
depressional	30	Ponding	1.00	!	1.00		1.00
	     	Depth to   saturated zone   Frost action 	1.00    1.00	saturated zone	1.00    1.00	Depth to   saturated zone   	1.00     
Strathcona,			ļ.		ļ	]	į
depressional	30   	Very limited:   Ponding   Depth to	  1.00  1.00		  1.00  1.00		  1.00  1.00
	   	saturated zone   Frost action	1.00	saturated zone	1.00	saturated zone	
	ļ	Low strength	0.78	ļ	ļ		

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	đ	Shallow excavati   	ons	Lawns and landsca    - 	ping
	   			Rating class and   limiting features	•		
		[		ļ	ļ	[	
I4A: Rosewood	   4 	Depth to	1.00	:	1.00	  Very limited:   Depth to	
	     		1.00	saturated zone   Cutbanks cave   Ponding			1.00
Deerwood	   2 	Ponding	1.00	Ponding	1.00	  Very limited:   Ponding   Depth to	  1.00  1.00
	   	!	:	saturated zone Cutbanks cave	1.00	saturated zone	   
Mavie	2     	Depth to saturated zone Frost action	1.00    1.00	Depth to   saturated zone   Cutbanks cave	1.00    1.00	:	  1.00    1.00  0.01
Strathcona	     2 	Very limited:	i I	  Very limited:	į Į	Droughty    Very limited:   Depth to	      1.00
	       	Ponding	1.00		:		  1.00   
I5A:	į		į		į		į
Borup	75   	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Very limited:   Depth to   saturated zone	:
	   	!	:	!	1.00  0.10 	Ponding   	1.00   
Glyndon	9     	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Very limited:   Depth to   saturated zone	  1.00 
Rosewood	   8   		1.00	  Very limited:   Depth to   saturated zone	1.00		    1.00
	 	Ponding	1.00		1.00	Ponding	1.00
Augsburg	   5 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
	   	'	1.00	•	1.00  1.00  0.50	Ponding	1.00
Augsburg, depressional	     3 	    Very limited:   Ponding	      1.00	    Very limited:   Ponding	      1.00	    Very limited:   Ponding	      1.00
	     	Depth to saturated zone	1.00    1.00	!	1.00    0.50  0.10	Depth to saturated zone	1.00

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	d	Shallow excavati   	ons	Lawns and landsca   	ping
	unit   		•	   Rating class and   limiting features		   Rating class and   limiting features	
			İ		į		İ
I7A: Bowstring	   4E	 		 		 	
Bowstring	<del>1</del> 25 		1 1.00	Very limited:   Ponding	1	Very limited:   Ponding	1
	! 		11.00		1.00	!	11.00
	i	saturated zone		Depth to	1.00	!	11.00
	i	Frost action	1.00	saturated zone	i	organic matter	i
	   	Flooding 	1.00	Cutbanks cave Content of organic matter	1.00  1.00	! -	1.00
	<u> </u>		i		İ	İ	i
Fluvaquents	45	Very limited:		Very limited:		Very limited:	
		Ponding	1.00	!	1.00	!	1.00
	!	<u>-</u>	1.00	!	1.00	· -	1.00
		saturated zone		Depth to	1.00	Depth to	11.00
	 	Frost action Flooding	1.00  1.00	!	1.00	saturated zone	
	į		į	į	į	į	į
Hapludolls	5	Somewhat limited:	•	Somewhat limited:	:	Somewhat limited:	
		Slope   Frost action	0.63	!	0.63	Slope	0.63
	 		0.50	!	0.10	 	
Water	   5	    Not rated	 	    Not rated	 	  Not rated	 
-03							
I8A: Cathro	l I an	  Very limited:	!	  Very limited:		  Very limited:	-
Cacin O	00 		1		1.00		1.00
	i		11.00		1.00	Content of	11.00
	i	saturated zone	i	saturated zone	i	organic matter	i
	İ	Frost action	1.00	Content of	1.00	Depth to	1.00
	ļ	Low strength	0.78			saturated zone	!
	 	 	 	Cutbanks cave	0.10 	 	
Hamre	8	Very limited:	į	Very limited:	İ	Very limited:	į
			1.00		1.00	!	1.00
		<u>-</u>	1.00	! -	1.00	!	1.00
		saturated zone		saturated zone		organic matter	
	 	Frost action   Low strength	1.00  0.78		0.10 	Depth to saturated zone	1.00
			ļ		ļ		ļ
Northwood	3 	Very limited:	:	Very limited:	:	Very limited:	1 1.00
	l I	Ponding   Depth to	1.00  1.00	•	1.00  1.00	:	11.00
	i	saturated zone		saturated zone		saturated zone	
	į	Frost action	1.00	Cutbanks cave	1.00		į
	 	Low strength	0.78 	 		 	
Roliss	3	  Very limited:		  Very limited:		  Very limited:	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone	[	saturated zone	1	saturated zone	
			1.00		1.00	Ponding	1.00
	 		1.00  0.78	•	0.10	 	
	i	İ		İ	i	İ	i
Berner	2	Very limited:	:	Very limited:	:	Very limited:	ļ
	ļ	Ponding	1.00		1.00		1.00
		<u> </u>	1.00	!	1.00	!	1.00
		saturated zone	1 00	saturated zone	1 00	organic matter	1 00
	I I	Frost action	1.00	Cutbanks cave	1.00  1.00	! -	1.00
	! 	1 	1	organic matter	1	Baculateu Zoile	1
	1		1	,	1	I .	1

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	Shallow excavati   	ons	Lawns and landsca	Lawns and landscaping    -	
	unit   	   Rating class and   limiting features		   Rating class and   limiting features	•	Rating class and limiting features	Value	
	ļ							
I8A: Kratka	   2 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00		    1.00	
	     	Ponding	  1.00  1.00  0.78	Ponding	  1.00  1.00		  1.00   	
Seelyeville	   2 	!	    1.00  1.00	!	    1.00  1.00		    1.00  1.00	
	     	saturated zone   Frost action   	  1.00   	saturated zone Content of organic matter Cutbanks cave	  1.00    0.10		     	
T03 -								
I9A: Clearwater	   80 	Depth to	1	! -	1 1.00		1   1.00	
	   		  1.00  1.00		  1.00  1.00		  1.00  1.00	
	 	Shrink-swell	1.00	Too clayey	0.50	-   	į Į	
Clearwater, very		 		 			¦	
cobbly	5 	Very limited:   Depth to   saturated zone	:	Very limited:   Depth to   saturated zone	:	Very limited:   Depth to   saturated zone	1.00	
	   	Frost action	  1.00  1.00	Cutbanks cave	  1.00  1.00	Too clayey	  1.00  1.00	
	   	!	1.00		0.50	 		
Reis	   5 		:	Very limited:   Depth to	•	  Very limited:   Depth to	1.00	
	     	Low strength	  1.00  1.00  1.00	Too clayey	  1.00  0.88 	saturated zone Too clayey	  1.00   	
Clearwater,	l İ	 	 	 	 	 		
depressional	3 	Very limited:   Ponding   Depth to	  1.00  1.00		  1.00  1.00	  Very limited:   Ponding   Depth to	  1.00  1.00	
	     	saturated zone Frost action Low strength Shrink-swell	  1.00  1.00	saturated zone Cutbanks cave	  1.00  0.50	saturated zone	     	
Espelie	   3 	    Very limited:   Depth to	İ	    Very limited:   Depth to	    1.00	  Very limited:   Depth to	      1.00	
	   	saturated zone   Frost action	1.00	saturated zone	1.00	saturated zone Ponding	11.00	
	 	Low strength Shrink-swell Ponding	1.00  1.00	Too clayey	1.00  0.50	 		

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	d	Shallow excavati	lons	Lawns and landsca	ping
	unit   	Rating class and			•	Rating class and   limiting features	
I9A: Foxlake	     2	    Very limited:		    Very limited:		    Very limited:	   
	i	saturated zone Frost action Low strength Shrink-swell	  1.00  1.00	Too clayey Cutbanks cave	į	saturated zone Ponding	1.00    1.00   
Hattie	;   	Low strength Shrink-swell Frost action	1.00  1.00  0.50  0.10	  Very limited:   Depth to   saturated zone   Cutbanks cave   Too clayey	1.00	Depth to saturated zone	  1.00  0.10 
Huot	   1     	•	•	Cutbanks cave Depth to saturated zone	1.00	 	         
I11A: Deerwood	İ	Ponding Depth to saturated zone	1.00  1.00 	  Very limited:   Ponding   Depth to   saturated zone   Cutbanks cave	1.00  1.00 	Ponding Depth to saturated zone	    1.00  1.00
Rosewood	   6       	saturated zone	1.00    1.00	Cutbanks cave	1.00	saturated zone Ponding	  1.00    1.00
Markey	İ	Ponding	1.00  1.00 	Ponding Depth to saturated zone	1.00  1.00    1.00	Content of organic matter	1.00
Strathcona	   2       	Ponding	  1.00    1.00  1.00  0.78	saturated zone Cutbanks cave Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00 
Syrene	   2       	   Very limited:   Depth to   saturated zone   Ponding   Frost action	1.00    1.00	   Very limited:   Depth to   saturated zone   Cutbanks cave   Ponding	1.00	saturated zone Ponding	  1.00    1.00  0.30
Venlo	2         	  Very limited:   Ponding   Depth to   saturated zone   Frost action	  1.00  1.00    0.50	Depth to saturated zone	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    0.01

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	Shallow excavati	ons	   Lawns and landsca     	ping
	 			Rating class and limiting features			
I12A: Eckvoll	     70   	    Somewhat limited:	      0.50	    Very limited:   Cutbanks cave	      1.00  1.00	    Not limited	         
Kratka		Depth to saturated zone Frost action	1.00    1.00  1.00	Depth to saturated zone Cutbanks cave Ponding	1.00	Ponding	  1.00    1.00
Smiley		Depth to saturated zone Frost action Ponding	1.00    1.00	Cutbanks cave	1.00    1.00	Depth to saturated zone Ponding	  1.00    1.00 
Linveldt			0.50	Cutbanks cave	1.00	:	
Reiner	:		0.78	•	1.00	į	       
Foldahl	   2     	•	0.50	Cutbanks cave	1.00	!	       
Pelan	   2     	Low strength	0.78		1.00	!	       
Poppleton	   1     	  Not limited     	       	  Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  1.00 	  Somewhat limited:   Droughty   	  0.09   
I13A:	į	İ	į	i	į	İ	İ
Espelie	75           	Depth to saturated zone Frost action Low strength Shrink-swell	  1.00    1.00  1.00  1.00	saturated zone Cutbanks cave Ponding Too clayey	  1.00    1.00  1.00  0.50	saturated zone	  1.00    1.00 
Foxlake	   8           	Low strength Shrink-swell	  1.00    1.00  1.00  1.00  1.00	saturated zone Ponding Too clayey Cutbanks cave	  1.00    1.00  0.50  0.10	saturated zone	  1.00    1.00   

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	đ	Shallow excavati   	ons	Lawns and landscaping	
	   		Value	Rating class and limiting features		Rating class and   limiting features	Value
I13A: Hilaire	   7     	    Somewhat limited:   Frost action   	      0.50   	Depth to saturated zone	    1.00  1.00    0.50	    Somewhat limited:   Droughty   	      0.01   
Clearwater, depressional	   5         	Ponding Depth to saturated zone Frost action Low strength	   1.00   1.00   1.00   1.00   1.00	Depth to saturated zone Cutbanks cave Too clayey	    1.00  1.00    1.00  0.50	Depth to saturated zone	    1.00  1.00   
Thiefriver	   5         	saturated zone	  1.00    1.00  1.00	saturated zone Cutbanks cave Ponding	  1.00    1.00  1.00  0.50	saturated zone Ponding	  1.00    1.00   
I15A: Flaming	   70     	  Not limited     	;         	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00	  Somewhat limited:   Droughty   	    0.15 
Garborg	   10     	Depth to saturated zone	    0.78    0.50	saturated zone	    1.00    1.00	  Somewhat limited:   Depth to   saturated zone   Droughty	  0.78    0.02
Hamar	   5     	saturated zone Ponding	  1.00    1.00  0.50	saturated zone Cutbanks cave	  1.00    1.00  1.00	saturated zone Ponding	  1.00    1.00  0.21
Ulen	   5   	•	0.50	•	1.00		  0.22 
Poppleton	   3     	  Not limited     	       	Cutbanks cave	:	  Somewhat limited:   Droughty   	  0.09 
Sandberg	   3   	  Not limited   	       	  Very limited:   Cutbanks cave 	•	  Somewhat limited:   Droughty   Gravel content	  0.85  0.01
Foldahl	   2     	  Somewhat limited:   Frost action     		Cutbanks cave	1.00	:	

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	Shallow excavati   	ons	Lawns and landsca	ping
	unit   		Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I15A: Radium	     2   	    Not limited 	       	  Very limited:   Cutbanks cave   Depth to   saturated zone	      1.00  0.96	      Somewhat limited:	      0.76
7167	į		į		į		į
I16F: Fluvaquents	   55       	Ponding Depth to saturated zone Frost action	  1.00  1.00    1.00  1.00	Flooding   Depth to   saturated zone	  1.00  1.00  1.00 		  1.00  1.00  1.00
Hapludolls	   25     	Slope   Frost action	  0.63  0.50  0.40	Cutbanks cave	  0.63  0.10	  Somewhat limited:   Slope   	  0.63 
Hapludalfs	   7       	Slope   Low strength   Shrink-swell	  1.00  1.00  1.00  0.50  0.40	Depth to saturated zone Cutbanks cave	  1.00  1.00    0.10	  Very limited:   Slope     	  1.00     
Fairdale	   5       	Shrink-swell   Frost action		Flooding	  1.00    0.60  0.37  0.10	  Somewhat limited:   Flooding   Slope 	  0.60  0.37 
Water	   5	  Not rated	 	  Not rated	!	  Not rated	
Bowstring	   2           	Depth to saturated zone Frost action	  1.00  1.00    1.00  1.00	Flooding   Depth to	  1.00  1.00  1.00    1.00  1.00	Flooding   Content of   organic matter	  1.00  1.00  1.00    1.00
Rauville	   1           	Depth to   saturated zone   Frost action   Flooding	  1.00  1.00    1.00  1.00	Flooding   Depth to   saturated zone   Cutbanks cave	  1.00  1.00  1.00    1.00	   Very limited:   Ponding   Flooding   Depth to   saturated zone	  1.00  1.00  1.00 
I17A: Foldahl	   75       		    0.50   	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00 	  Not limited       	

Table 20b.--Building Site Development--Continued

	Pct. of map unit	streets	ıd	Shallow excavati     	ons	Lawns and landsca	ping
	i   	Rating class and limiting features		Rating class and   limiting features		Rating class and limiting features	
-4	ļ			<u> </u>			ļ
I17A: Kratka	   10         	Depth to   saturated zone   Frost action   Ponding	1.00    1.00	saturated zone Cutbanks cave Ponding	1.00	saturated zone Ponding	  1.00    1.00
Roliss	į Į	Depth to saturated zone	1.00    1.00	Depth to   saturated zone   Ponding   Cutbanks cave	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00
Flaming	   4     	  Not limited     	       	Cutbanks cave	1.00	  Somewhat limited:   Droughty   	  0.15   
Grimstad			1.00	Depth to saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	  0.78   
Linveldt	2   2   	!		Cutbanks cave	1.00	!	       
Eckvoll	   1   	1		!	  1.00  1.00 	!	     
Strathcona	   1       	Depth to saturated zone	1.00    1.00	Depth to   saturated zone   Cutbanks cave   Ponding	1.00	!	  1.00    1.00 
I18A:	i	! 	1	! 	i	! 	i
Foldahl	75       	Somewhat limited:   Frost action     	  0.50   	Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  1.00 	!	     
Kratka	10           	Very limited:   Depth to   saturated zone   Frost action   Ponding   Low strength		Ponding	1.00	Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00
Roliss	   5         	  Very limited:   Depth to   saturated zone   Frost action   Ponding   Low strength	1.00	saturated zone Ponding Cutbanks cave	  1.00    1.00  0.10	saturated zone Ponding	  1.00    1.00 

Table 20b.--Building Site Development--Continued

component name	  Pct.   of  map  unit	streets	đ	   Shallow excavati     	ons	   Lawns and landsca   	ping
	unite   	'	•	Rating class and   limiting features	•	Rating class and limiting features	
I18A: Flaming	     4   	    Not limited     	         	•	!	    Somewhat limited:   Droughty   	      0.15 
Grimstad	   2     	Frost action		saturated zone		  Somewhat limited:   Depth to   saturated zone	  0.78 
Linveldt	   2     	!	:	•	    1.00  1.00	  Not limited     	     
Eckvoll	   1     	!	:	1	  1.00  1.00	  Not limited     	
Strathcona	   1       	saturated zone Frost action Ponding	1.00	saturated zone Cutbanks cave Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00 
I19A: Foxhome	     65     	Low strength	•	!	      1.00  1.00	  Not limited   	
Kittson	   10     	Low strength		saturated zone	    1.00    0.10	  Not limited     	     
Strandquist	   10         	Depth to saturated zone Frost action Ponding	!	Depth to   saturated zone   Cutbanks cave   Ponding	:	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00 
Foldahl	   5   	  Somewhat limited:   Frost action 	    0.50   	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00	  Not limited   	
Grimstad	   5     	•	•	  Very limited:   Depth to   saturated zone   Cutbanks cave	    1.00    1.00	  Somewhat limited:   Depth to   saturated zone 	  0.78   

Table 20b.--Building Site Development--Continued

component name	Pct. of map	Local roads an	ıd	Shallow excavati 	ons	Lawns and landsca	ping
	map  unit	 		 		 	
	 	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
T103							
I19A: Roliss	   3	  Very limited:		  Very limited:		  Very limited:	
ROTISS	1	Depth to	1		11.00		1
	! 	saturated zone	1	saturated zone	1	saturated zone	1
	i	Frost action	1.00		1.00	Ponding	1.00
	i	Ponding	1.00	!	0.10		i
	į	Low strength	0.78	į	į		į
Mavie	   2	  Very limited:		  Very limited:		  Very limited:	
	i	Depth to	1.00	Depth to	1.00	Depth to	1.00
	İ	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
		Ponding	1.00	Ponding	1.00	Droughty	0.01
I20A:		 		 		 	¦
Foxlake	75	Very limited:		Very limited:		Very limited:	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	!	0.50		
	!	Shrink-swell	1.00	•	0.10		!
	 	Ponding 	1.00	 	 	 	
Clearwater	5	Very limited:	•	Very limited:		Very limited:	į
		Depth to	1.00	! - T	1.00	! -	1.00
	!	saturated zone	ļ	saturated zone	ļ	saturated zone	!
		Frost action	1.00	!	1.00	Too clayey	1.00
	!	Low strength	1.00		1.00	Ponding	1.00
	 	Shrink-swell Ponding	1.00  1.00	!	0.50 	 	
	į _		į		į		į
Foxlake, very cobbly	5	Very limited:	•	Very limited:		Very limited:	
		Depth to	1.00	! - T	1.00	! -	1.00
	l I	saturated zone Frost action	1 1.00	saturated zone Ponding	1	saturated zone Ponding	1 1.00
	l I	Low strength	11.00		0.50	Foliating	1
	 	Shrink-swell	1.00		0.10	<u> </u> 	i
		Ponding	1.00	•			
Augsburg	   3	  Very limited:		  Very limited:		  Very limited:	
.5	i	Depth to	1.00		1.00		1.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	İ	Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
	İ	Ponding	1.00	Ponding	1.00	İ	į
		  -		Too clayey	0.50	 	
Clearwater,	 	 		 		 	
depressional	3	Very limited:		Very limited:		Very limited:	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	1	saturated zone	
	ļ	Frost action	1.00	•	1.00	<u> </u>	
		Low strength	1.00	Too clayey	0.50	I	
	i	Shrink-swell	1.00				

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	Shallow excavati   	ons	Lawns and landsca	ping
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
		ļ		ļ	Į.	[	
I20A: Espelie	   3 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
	       	Frost action Low strength	1.00  1.00  1.00  1.00	Cutbanks cave Ponding Too clayey	1.00  1.00  0.50	Ponding	1.00
Hilaire	   2       	  Somewhat limited:   Frost action   	    0.50     	  Very limited:   Cutbanks cave   Depth to   saturated zone   Too clayey	  1.00  1.00      0.50	  Somewhat limited:   Droughty   	  0.01   
Reis	   2 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	1   1.00
	     	Frost action   Low strength	1.00  1.00  1.00	Cutbanks cave	1.00  0.88	Too clayey	1.00
Wheatville	   2         	  Very limited:   Frost action   Depth to   saturated zone 	  1.00  0.90 	! - T	  1.00    0.50  0.10	  Somewhat limited:   Depth to   saturated zone   	  0.90     
I22A:	į	İ	j	İ	İ	İ	İ
Glyndon	75     	Depth to saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	Very limited:   Depth to   saturated zone 	  1.00 
Borup	   10     	Depth to   saturated zone   Frost action	1.00    1.00	saturated zone Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	 	Ponding	1.00	Cutbanks cave	0.10	 	
Augsburg	   5   	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	  1.00
	   	Frost action Ponding	1.00  1.00	!	1.00  0.50  0.10	Ponding	1.00
Ulen	   5   	  Somewhat limited:   Frost action   Depth to   saturated zone	  0.50  0.22	! -	  1.00    1.00	  Somewhat limited:   Depth to   saturated zone	  0.22 
Wheatville	   3     	  Very limited:   Frost action   Depth to   saturated zone		   Very limited:   Depth to   saturated zone   Too clayey   Cutbanks cave	  1.00    0.50  0.10	  Somewhat limited:   Depth to   saturated zone   	    0.90   

Table 20b.--Building Site Development--Continued

component name	Pct.   Local roads and     of   streets     map		Shallow excavations   		Lawns and landscaping		
		Rating class and limiting features	•	Rating class and limiting features	•	Rating class and   limiting features	
I22A: Flaming	   2     	    Not limited   	         		      1.00  1.00	!	    0.15
I24A: Grimstad	     70   	Frost action	1.00  0.78	saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	      0.78 
Strathcona	j 	Depth to saturated zone Frost action Ponding	1.00    1.00	Depth to saturated zone Cutbanks cave Ponding	1.00		  1.00    1.00
Foldahl	   5     	!	:	Cutbanks cave	1.00	!	       
Hamerly	   5     	Frost action Depth to saturated zone	1.00	Cutbanks cave	!	   Somewhat limited:   Depth to   saturated zone	  0.90   
Foxhome	   2     	!	    0.78  0.50 	!	    1.00  1.00	  Not limited   	       
Karlsruhe	   2     	Frost action	0.50	saturated zone		  Somewhat limited:   Depth to   saturated zone	  0.22 
Mavie	   2       	saturated zone Frost action	  1.00    1.00  1.00	saturated zone Cutbanks cave	  1.00    1.00  1.00	saturated zone Ponding	  1.00    1.00  0.01
Ulen	   2     	•	    0.50  0.22 		    1.00    1.00	  Somewhat limited:   Depth to   saturated zone   	  0.22     
I25A: Hamar	   75     	saturated zone Ponding	  1.00    1.00  0.50	saturated zone Cutbanks cave	  1.00    1.00  1.00	saturated zone Ponding	  1.00    1.00  0.21

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	d	   Shallow excavati   	ons	   Lawns and landsca   	ping
	unit			<u> </u>			
	 	Rating class and   limiting features		Rating class and   limiting features		Rating class and   limiting features	Value
					!		
I25A: Garborg	l l 10	  Somewhat limited:		  Very limited:		  Somewhat limited:	l I
carborg	=0		0.78	! -	1.00	!	0.78
	į	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Frost action	0.50	Cutbanks cave	1.00	Droughty	0.02
Rosewood	   7	  Very limited:	l I	  Very limited:		  Very limited:	 
	i	_	:			Depth to	1.00
	İ	saturated zone	İ	saturated zone	į	saturated zone	İ
		Ponding	1.00	Cutbanks cave	1.00	Ponding	1.00
		Frost action	0.50	Ponding	1.00	 	
Venlo	   3	  Very limited:		  Very limited:		  Very limited:	i
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		_	1.00	! - T	1.00	!	1.00
		saturated zone		saturated zone		saturated zone	
	l I	Frost action 	0.50 	Cutbanks cave	1.00	Droughty 	0.01
Flaming	2	Not limited	i	Very limited:	i	Somewhat limited:	i
	ĺ		Ì	Cutbanks cave	1.00	Droughty	0.15
				Depth to	1.00		
	 	 	l i	saturated zone		  -	
Hangaard	   2	  Very limited:		  Very limited:	i	  Very limited:	
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
			1.00	!	1.00	!	1.00
	 	Frost action 	0.50 	Ponding 	1.00 	Droughty	0.92
Kratka	1	  Very limited:		  Very limited:	İ	  Very limited:	i
		_	1.00	! - T	1.00	! -	1.00
		saturated zone		saturated zone		saturated zone	
			1.00	!	11.00	Ponding	1.00
	 	_	1.00  0.78	!	1.00 	 	
	į		į	į	į	İ	į
I26A: Hamerly	   75	  Very limited:	 	  Very limited:		  Somewhat limited:	
namer ry	/3		1.00	! -	1.00	!	0.90
	i		0.90	! - T	i	saturated zone	i
	İ	saturated zone	İ	Cutbanks cave	0.10	İ	İ
		Low strength	0.78				
Vallers	   12	  Very limited:	 	  Very limited:		  Very limited:	
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	1
			1.00	!	1.00	Ponding	1.00
		-	1.00	•	0.10	1	!
	 	Low strength	0.78 	 		 	
Foxhome	3	Somewhat limited:	İ	  Very limited:	İ	  Not limited	i
			0.78		1.00		
	ļ	Frost action	0.50	!	1.00		ļ
	 	[ [	 	saturated zone		 	
Grimstad	3	  Very limited:		  Very limited:	İ	  Somewhat limited:	i
		Frost action	1.00	Depth to	1.00	Depth to	0.78
	ļ	_	0.78	!	1	saturated zone	ļ
	I	saturated zone	I	Cutbanks cave	1.00	I	1

Table 20b.--Building Site Development--Continued

Map symbol and component name	Pct. of map	Local roads an	d	   Shallow excavati   	ons	Lawns and landsca	ping
	unit		1	<u> </u>	1	<u> </u>	1
	 	Rating class and   limiting features	Value 	Rating class and   limiting features	Value	Rating class and   limiting features	Value
-05-	ļ						
<pre>I26A:   Hamerly, very cobbly</pre>	l I 3	  Very limited:		  Very limited:		  Somewhat limited:	
		Frost action	1.00		1.00	Depth to	0.90
	ĺ	Depth to	0.90	saturated zone	İ	saturated zone	İ
	 	saturated zone Low strength	  0.78	Cutbanks cave	0.10	 	 
Strathcona		  Very limited:	Ì	  Very limited:	İ	  Very limited:	
Stratificona	3 	Depth to	1	! -	1	!	1 1.00
	İ	saturated zone		saturated zone		saturated zone	
	İ	Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
	ļ	Ponding	1.00	Ponding	1.00		ļ
	 	Low strength	0.78 	 		 	
Roliss, depressional	1	  Very limited:		  Very limited:		  Very limited:	i
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	! - T	1.00	Depth to	1.00
	 	saturated zone Frost action	1.00	saturated zone Cutbanks cave	  0.10	saturated zone	
		Low strength	0.78	!			
I27A:	 	 		 		 	
Hamre	80	  Very limited:	i	  Very limited:	i	  Very limited:	i
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	! - T	1.00	Content of	1.00
	 	saturated zone Frost action	  1.00	saturated zone Cutbanks cave	  0.10	organic matter Depth to	11.00
		Low strength	0.78	!		saturated zone	
Northwood	   5	  Very limited:	l I	  Very limited:	 	  Very limited:	l I
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Frost action  Low strength	1.00  0.78	Cutbanks cave	1.00 	 	
Roliss	   5	  Very limited:		  Very limited:		  Very limited:	
	į	Depth to	1.00	! -	1.00	!	1.00
		saturated zone	[	saturated zone	1	saturated zone	
		Frost action	1.00	Ponding	1.00	Ponding	1.00
	 	Ponding Low strength	1.00  0.78	Cutbanks cave	0.10	 	
Smiley	   5	  Very limited:	 	  Very limited:	 	  Very limited:	 
_	į	Depth to	1.00	•	1.00	-	1.00
		saturated zone	[	saturated zone	1	saturated zone	
		Frost action	1.00	!	1.00	Ponding	1.00
	 	Ponding Low strength	1.00  0.78	•	0.10 	 	
Cathro	   3	  Very limited:	 	  Very limited:		  Very limited:	
	i	Ponding	1.00		1.00	:	1.00
		Depth to	1.00	Depth to	1.00	Content of	1.00
	ļ	saturated zone		saturated zone		organic matter	
	 	Frost action	1.00	•	1.00	Depth to	1.00
	I I	Low strength	0.78 	organic matter Cutbanks cave	0.10	saturated zone	
	i	! 	i			i	i

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	Shallow excavati     	ons	   Lawns and landsca     	ping
	   	Rating class and	•	Rating class and limiting features	•		
I27A: Kratka	   2       	saturated zone Frost action Ponding	1.00    1.00	Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
I32A:	 	 	 	 		 	
Hilaire	75       	!	  0.50     	Very limited:   Cutbanks cave   Depth to   saturated zone   Too clayey	1.00	 	       
Espelie	   12           	Depth to saturated zone Frost action Low strength Shrink-swell	1.00    1.00	Ponding Too clayey	1.00	:	  1.00    1.00 
Huot	   5     	  Somewhat limited:   Frost action   	:	  Very limited:   Cutbanks cave   Depth to   saturated zone   Too clayey	1.00	:	         
Flaming	2     	  Not limited   	       	  Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  1.00	:	  0.15 
Foxlake	   2         	Depth to saturated zone Frost action Low strength Shrink-swell	1.00	Too clayey Cutbanks cave	1.00	saturated zone Ponding	  1.00    1.00 
Wheatville	   2       	•	    1.00  0.90   		  1.00    0.50  0.10	saturated zone	  0.90     
Thiefriver	         	saturated zone	:		  1.00    1.00  1.00  0.50	saturated zone Ponding	  1.00    1.00 
Wyandotte	   1         	saturated zone Frost action	  1.00    1.00  1.00	saturated zone Cutbanks cave	  1.00    1.00  1.00  0.50	saturated zone Ponding	  1.00    1.00 

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	   Shallow excavati     	ons	   Lawns and landsca     	ping
		'		Rating class and   limiting features	•	   Rating class and   limiting features	
I34A: Huot	   75       	•		Depth to saturated zone	1.00	 	
Thiefriver	   12         	Depth to saturated zone Frost action	1.00    1.00	saturated zone Cutbanks cave Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00
Hilaire	   5     	  Somewhat limited:   Frost action   		Depth to saturated zone	1.00	 	         
Flaming	   3   	  Not limited     	     	Cutbanks cave	1.00	  Somewhat limited:   Droughty   	  0.15 
Foxlake	   3         	Depth to saturated zone Frost action Low strength Shrink-swell	1.00    1.00  1.00	Too clayey Cutbanks cave	1.00	!	  1.00    1.00 
Ulen	   2     	  Somewhat limited:   Frost action   Depth to   saturated zone	0.50	Depth to saturated zone	:	  Somewhat limited:   Depth to   saturated zone 	  0.22   
I36A: Kittson	   70 	Low strength	0.78		    1.00	  Not limited 	   
	   	Frost action   	0.50   	saturated zone Cutbanks cave	  0.10 	   	   
Roliss	12           	Very limited:   Depth to   saturated zone   Frost action   Ponding   Low strength	  1.00    1.00  1.00  0.78	saturated zone Ponding Cutbanks cave	  1.00    1.00  0.10	saturated zone	  1.00    1.00 
Hamerly	5         	  Very limited:   Frost action   Depth to   saturated zone   Low strength	  1.00  0.90    0.78		  1.00    0.10 	  Somewhat limited:   Depth to   saturated zone   	  0.90     

Table 20b.--Building Site Development--Continued

component name	Pct. of	streets	đ	Shallow excavati 	ons	Lawns and landsca	ping
	map  unit	!		I I		 	
		'	1721110	Rating class and	1721110	Dating alage and	1379 1114
	 			limiting features			
			Ī		ĺ		
I36A:			!		ļ.		ļ
Kratka	5	Very limited:		Very limited:   Depth to	•	Very limited:   Depth to	11 00
	l I	Depth to saturated zone	!	saturated zone	1	saturated zone	1.00
	i I			1	11.00		1.00
	i	!	1.00	Ponding	1.00	!	i
	İ	Low strength	0.78	İ	İ	İ	İ
			ļ		ļ		!
Grimstad	3 			Very limited:	:	Somewhat limited:	1 0.78
	l I		0.78	Depth to saturated zone	:	Depth to saturated zone	10.76
	 	saturated zone	!	!	1	!	¦
	į	İ	į	j	į	İ	į
Strandquist	3	Very limited:		Very limited:		Very limited:	ļ
		! · · · · · · · · · · · · · · · · · · ·	!	:	1.00	!	1.00
	 	saturated zone Frost action		saturated zone Cutbanks cave	1 00	saturated zone Ponding	1 00
	 	!	!	!	11.00	!	1.00
	! 	!	0.78		1	! 	i
	į	İ	i	j	į	İ	i
Foxhome	2	Somewhat limited:		Very limited:		Not limited	
		!	:	Cutbanks cave	:	!	
		Frost action	0.50	:	1.00		ļ
	 	 	!	saturated zone		  -	
I38A:	 	 	ŀ	! [	ŀ	 	i
Kratka	70	Very limited:	i	Very limited:	i	Very limited:	i
	ĺ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		!	!	Cutbanks cave	!	!	1.00
		· -	10.79		1.00	 	!
	l I	Low strength	0.78 	 		 	
Smiley	7	  Very limited:	i	  Very limited:	i	  Very limited:	i
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		!	:		:	!	1.00
		-	10.70		0.10	 	!
	l I	Low strength	0.78 	 		 	
Foldahl	5	Somewhat limited:	i	  Very limited:	i	  Not limited	i
	İ	Frost action	0.50	Cutbanks cave	1.00	İ	į
		!	[	Depth to	1.00	!	1
			!	saturated zone			!
Kratka, very cobbly	l   5	  Very limited:	 	  Very limited:	 	  Very limited:	1
,	i	:	1.00	:	1.00	:	1.00
	į	saturated zone	į	saturated zone	į	saturated zone	İ
	ĺ	Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
		•	1.00	Ponding	1.00		
		Low strength	0.78			 	
and the same	l   5	  Very limited:	 	  Very limited:	 	  Very limited:	1
Strathcona	i	Depth to	1	•	1.00	:	1
Strathcona	:	! -	i	saturated zone	i	saturated zone	i
Strathcona		saturated zone	1				
Stratncona	 	saturated zone   Frost action	1.00	!	1.00	Ponding	1.00
Stratncona	   	Frost action	1.00	Cutbanks cave	1.00  1.00		1.00 

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	d	Shallow excavati   	ons	Lawns and landsca	ping
	unit	!				İ	
	 	Rating class and limiting features	•	Rating class and limiting features	•	Rating class and limiting features	Value
I38A:	 	l I		l I		l I	
Kratka, depressional	   3 		1.00	  Very limited:   Ponding	1.00	  Very limited:   Ponding	1.00
	   	saturated zone	1.00    1.00	saturated zone	1.00    1.00	Depth to saturated zone	1.00
	   		0.78	:		   	
Strandquist	3	Depth to	:	  Very limited:   Depth to	1.00	! -	1.00
	     	Ponding	  1.00  1.00  0.78	Ponding	  1.00  1.00 	saturated zone   Ponding   	  1.00   
Linveldt	   2     	!	    0.50   	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00	  Not limited     	
I39A:	l I	 	 	 	 	 	
Linveldt	   65     	!	  0.50   	Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  1.00 	Not limited     	     
Kratka	   14   		:	  Very limited:   Depth to   saturated zone	•	  Very limited:   Depth to   saturated zone	    1.00
	   	Ponding	1.00  1.00  0.78	Ponding	1.00  1.00 	Ponding   	1.00   
Reiner	   10     	Low strength	  0.78  0.50	! -	    1.00    0.10	  Not limited     	     
Smiley	   5 	  Very limited:   Depth to	•	  Very limited:   Depth to	!	  Very limited:   Depth to	    1.00
	   	saturated zone Frost action	1.00	saturated zone Ponding	1.00	saturated zone	11.00
	 		1.00		0.10	 	
Eckvoll	   3   	  Somewhat limited:   Frost action   	    0.50 	!	    1.00  1.00	  Not limited     	     
Foldahl	   2     	  Somewhat limited:   Frost action   	    0.50   	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00	  Not limited     	     
Pelan	   1   		    0.78  0.50	!	    1.00  1.00	  Not limited     	

Table 20b.--Building Site Development--Continued

component name	Pct. of map	Local roads an   streets 	d	   Shallow excavati   	ons	   Lawns and landsca   	ping
	unit	'	Value	 	Value	   Rating class and   limiting features	Value
	<u> </u>		<u> </u>		<u> </u>		1
I41A: Markey	   80 	! - T	    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00
	   	saturated zone	1.00    1.00	saturated zone Cutbanks cave	1.00    1.00	organic matter Depth to	1.00    1.00
	   	   	   	Content of   organic matter 	1.00   	saturated zone   	   
Deerwood	   12 	! - T	1.00	  Very limited:   Ponding	1.00	  Very limited:   Ponding	1.00
	 	saturated zone	1.00	saturated zone	1.00	Depth to saturated zone	1.00
	 	Frost action 	1.00 	Cutbanks cave	1.00 	 	
Berner	2 	Very limited:   Ponding	  1.00	Very limited:   Ponding	  1.00	Very limited:   Ponding	  1.00
	 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Content of organic matter	1.00 
	     	Frost action     	1.00   	Cutbanks cave Content of organic matter	1.00  1.00 	Depth to   saturated zone 	1.00   
Hamar	   2   	  Very limited:   Depth to   saturated zone	  1.00 	  Very limited:   Depth to   saturated zone	  1.00 	  Very limited:   Depth to   saturated zone	  1.00 
	   	!	1.00  0.50	!	1.00  1.00	Ponding   Droughty 	1.00
Seelyeville	   2 	  Very limited:   Ponding	  1.00	  Very limited:   Ponding	1.00	  Very limited:   Ponding	  1.00
	   	saturated zone	1.00    1.00	saturated zone	1.00    1.00	Depth to saturated zone	1.00   
	   	 		organic matter Cutbanks cave	0.10		
Syrene	   2 	! -	1.00	! -	1.00	_	1.00
	   	saturated zone   Ponding   Frost action	  1.00  0.50		  1.00  1.00	saturated zone Ponding Droughty	  1.00  0.30
I42A:	 	 		 		 	
Markey, ponded	   85 	! - T	1	  Very limited:   Ponding	1	  Very limited:   Ponding	1
	j I		1.00		1.00	Content of organic matter	1.00
	   	Frost action   	1.00   	Cutbanks cave Content of organic matter	1.00  1.00 	Depth to saturated zone	1.00   
Markey	   5 	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	    1.00
	ļ	! -	1.00	! -	1.00	Content of	1.00
	   	saturated zone Frost action	1.00	saturated zone   Cutbanks cave	1.00	organic matter Depth to	1.00
	   	 		Content of organic matter	1.00	saturated zone	

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	d	Shallow excavati   	ons	Lawns and landsca	ping
	unit 	'	Value	   Rating class and	Value	   Rating class and	Value
	<u> </u>	limiting features	<u>i</u>	limiting features	<u>i</u>	limiting features	<u>i</u>
I42A:				l			
Deerwood	l   4	  Very limited:	i	  Very limited:	1	  Very limited:	i
	i -	Ponding	1.00		1.00		1.00
	i	Depth to	1.00		1.00	Depth to	1.00
	ĺ	saturated zone	İ	saturated zone	İ	saturated zone	İ
		Frost action	1.00	Cutbanks cave	1.00		
Seelyeville, ponded	 	  Very limited:		  Very limited:		  Very limited:	
beeryeville, ponded	<del>*</del> 	Ponding	11.00		11.00		1
	! 	Depth to	1.00	!	1.00	!	11.00
	i	saturated zone		saturated zone		saturated zone	i
	i	Frost action	1.00	Content of	1.00	İ	i
	ĺ	İ	Ì	organic matter	İ	İ	İ
	ļ	<u> </u>	ļ	Cutbanks cave	0.10	!	ļ
Hamar	   1	  Very limited:		  Very limited:		  Very limited:	
Titalia I	i -	Depth to		Depth to	1.00		1.00
	i	saturated zone		saturated zone		saturated zone	i
	i	Ponding	1.00	Cutbanks cave	1.00	Ponding	1.00
	į	Frost action	0.50	Ponding	1.00	Droughty	0.21
Hangaard	   1	  Very limited:		  Very limited:		  Very limited:	
nangaar a	, - 	Depth to	•	Depth to		Depth to	1
	i	saturated zone		saturated zone		saturated zone	
	i	Ponding	1.00		1.00	Ponding	1.00
	į	Frost action	0.50	Ponding	1.00	Droughty	0.92
I43A:	 	 		 		 	
Mavie	70	  Very limited:	i	  Very limited:	i	  Very limited:	i
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
		Ponding	1.00	Ponding	1.00	Droughty	0.01
Vallers	1 10	  Very limited:	i	  Very limited:	i	  Very limited:	
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Frost action	1.00		1.00	Ponding	1.00
	 	Ponding Low strength	1.00  0.78	!	0.10	 	
				 	i	İ	i
Strandquist	7	Very limited:		Very limited:		Very limited:	[
		Depth to	1.00	<u> </u>	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	 	Frost action	1.00	!	11.00	Ponding	1.00
	 	Ponding Low strength	1.00  0.78	Ponding	1.00	 	
_	į		į		į		į
Strathcona	5	Very limited:	:	Very limited:		Very limited:	
		Depth to	1.00		1.00	! -	1.00
	I I	saturated zone Frost action	  1.00	saturated zone Cutbanks cave	1.00	saturated zone Ponding	1 1.00
	I I	Frost action   Ponding	1.00	Cutbanks cave   Ponding	1.00	Policing	1
	i	Low strength	0.78			! 	i
	i	i	1		1	:	1

Table 20b.--Building Site Development--Continued

component name	Pct. of map	!	d	Shallow excavati   	ons	Lawns and landsca	ping
	unit					<u> </u>	
	 	Rating class and limiting features	•	Rating class and limiting features	•	Rating class and limiting features	•
I43A: Strathcona,	   	 	   	 	   	    -	   
depressional	3         	Ponding Depth to saturated zone Frost action	  1.00  1.00    1.00  0.78	Depth to   saturated zone   Cutbanks cave	  1.00  1.00    1.00		  1.00  1.00 
Foxhome	   2     		    0.78  0.50 		    1.00  1.00 	  Not limited     	       
Karlsruhe	   2     	'			  1.00    1.00	   Somewhat limited:   Depth to   saturated zone 	  0.22   
Grimstad	         	Frost action	:	Very limited:   Depth to   saturated zone   Cutbanks cave	  1.00    1.00	Somewhat limited:   Depth to   saturated zone	  0.78   
I44A: Newfolden	   75     	Low strength	:	Very limited: Depth to saturated zone Cutbanks cave	    1.00    0.10	  Not limited     	
Smiley	   12         	Depth to saturated zone Frost action Ponding	:	Cutbanks cave	  1.00    1.00  0.10	saturated zone	  1.00    1.00
Boash	   8         	saturated zone Frost action Low strength Shrink-swell	1.00    1.00  1.00	Cutbanks cave	:		  1.00    1.00
Linveldt	   4   	  Somewhat limited:   Frost action   	    0.50 	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00	  Not limited     	       
Hapludolls	   1       	Frost action	  0.63  0.50  0.40	Cutbanks cave	    0.63  0.10 	  Somewhat limited:   Slope     	  0.63   

Table 20b.--Building Site Development--Continued

component name	Pct. of map	Local roads an streets	d	   Shallow excavati   	ons.	   Lawns and landsca   	ping
	unit   		Value	 	Value	 	Value
	l		1		l		1
I45A: Northwood	   75     	Ponding	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00	  Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00 
	ĺ	Low strength	0.78	ĺ	İ		İ
Hamre	   10         	Ponding Depth to saturated zone	  1.00  1.00    1.00  0.78	Depth to   saturated zone   Cutbanks cave	  1.00  1.00    0.10	Content of   organic matter	  1.00  1.00    1.00
	į _	İ	į		į		į
Berner	5         	Very limited:   Ponding   Depth to   saturated zone   Frost action	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00  1.00	!	  1.00  1.00    1.00
Kratka	   5     	_	1.00    1.00  1.00	saturated zone Cutbanks cave Ponding	  1.00    1.00  1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	 	Low strength	0.78 	 		 	
Strandquist	   3       	_	  1.00    1.00  1.00  0.78	saturated zone Cutbanks cave Ponding	  1.00    1.00  1.00	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00 
Roliss	   2       	   Very limited:   Depth to   saturated zone   Frost action   Ponding   Low strength	  1.00    1.00  1.00  0.78	saturated zone Ponding	  1.00    1.00  0.10	saturated zone	  1.00    1.00 
146A:	 	 	 	 		 	 
Pits	85	Not rated	į	  Not rated	į	  Not rated	į
Udipsamments	   10     	  Very limited:   Slope   	    1.00   	  Very limited:   Cutbanks cave   Slope 	  1.00  1.00	<u> </u>	  1.00  0.57  0.50
Radium	   2   	  Not limited   	       	  Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  0.96	  Somewhat limited:   Droughty   	    0.76 
Maddock	   1 	  Not limited   	     	  Very limited:   Cutbanks cave 	    1.00 	  Somewhat limited:   Droughty 	    0.27 

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	   Shallow excavati     	ons	   Lawns and landsca   	ping
	   	'	Value	Rating class and   limiting features		Rating class and limiting features	Value
I46A: Marquette	     1 	    Not limited 	     	    Very limited:   Cutbanks cave	      1.00	    Somewhat limited:   Droughty	      0.85
Sandberg	   1 	  Not limited   	     	  Very limited:   Cutbanks cave 	    1.00	  Somewhat limited:   Droughty   Gravel content	  0.85  0.01
I47A: Poppleton	     75   	    Not limited     	         	  Very limited:   Cutbanks cave   Depth to   saturated zone	      1.00  1.00	    Somewhat limited:   Droughty   	      0.09 
Flaming	   12     	  Not limited     	       	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00	  Somewhat limited:   Droughty 	  0.15 
Garborg	   5   	saturated zone	    0.78    0.50	saturated zone	    1.00    1.00	saturated zone	  0.78    0.02
Hamar	   3     	saturated zone Ponding	:	!	1.00	Very limited:   Depth to   saturated zone   Ponding   Droughty	  1.00    1.00  0.21
Radium	   2     	  Not limited   	     	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  0.96	  Somewhat limited:   Droughty   	  0.76   
Ulen	   2     	!	    0.50  0.22 	! -	 	  Somewhat limited:   Depth to   saturated zone	  0.22   
Maddock	   1 	  Not limited   	     	  Very limited:   Cutbanks cave 	    1.00	  Somewhat limited:   Droughty 	0.27
I48A: Radium	   75     	  Not limited     	       	•	    1.00  0.96		    0.76   
Sandberg	   7 	  Not limited   	     	  Very limited:   Cutbanks cave 	    1.00 	  Somewhat limited:   Droughty   Gravel content	  0.85  0.01
Oylen	   5   	  Somewhat limited:   Frost action 	    0.50 	!	    1.00  0.96		    0.01 

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	   Shallow excavati     	ons	   Lawns and landsca     	ping
	 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	
I48A: Flaming	     4   	    Not limited     	         		      1.00  1.00	    Somewhat limited:   Droughty   	      0.15 
Garborg	   3   	Depth to saturated zone	0.78	saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone   Droughty	  0.78    0.02
Hangaard	   3     	Depth to saturated zone Ponding	1.00    1.00	Depth to   saturated zone   Cutbanks cave	1.00    1.00	Very limited: Depth to saturated zone Ponding Droughty	  1.00    1.00  0.92
Hamar	   2     	saturated zone Ponding	1.00    1.00	saturated zone Cutbanks cave	1.00    1.00	Very limited: Depth to saturated zone Ponding Droughty	  1.00    1.00  0.21
Poppleton	   1   	  Not limited     	       	Cutbanks cave		  Somewhat limited:   Droughty 	  0.09 
TEO.		 					!
I50A: Reiner	   70     	'	  0.78  0.50	saturated zone	1.00	  Not limited     	       
Smiley	   12         		1.00		1.00	   Depth to   saturated zone   Ponding	  1.00    1.00 
Reiner, very cobbly	   7   	  Somewhat limited:   Low strength   Frost action	  0.78  0.50		    1.00    0.10	  Not limited   	       
Linveldt	   5   	  Somewhat limited:   Frost action   	    0.50   	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00	  Not limited   	     
Eckvoll	   3   	  Somewhat limited:   Frost action   	    0.50   	!	    1.00  1.00	  Not limited     	       

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	đ	   Shallow excavati     	ons	   Lawns and landsca     	ping
	   	Rating class and		Rating class and   limiting features		•	
I50A: Kratka	   3       	saturated zone Frost action Ponding	1.00    1.00	saturated zone Cutbanks cave Ponding	1.00	     Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
I51A: Reiner	     65   	Low strength	:	saturated zone	1.00	    Not limited   	       
Smiley	:	Depth to   saturated zone   Frost action   Ponding	1.00	saturated zone Ponding Cutbanks cave	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Reiner fine sandy loam	     8   	Low strength	:	saturated zone	1.00	İ	         
Linveldt	   7   	1	•	Cutbanks cave	    1.00  1.00	:	       
Kratka	   5       	Depth to saturated zone Frost action Ponding	1.00    1.00	Depth to   saturated zone   Cutbanks cave   Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00
Eckvoll	   3   	  Somewhat limited:   Frost action   	•	  Very limited:   Cutbanks cave   Depth to   saturated zone	    1.00  1.00	  Not limited   	       
Reiner, very cobbly	   3     		:	  Very limited:   Depth to   saturated zone   Cutbanks cave	    1.00    0.10	  Not limited     	       
I52A: Reis	   55           	Depth to   saturated zone   Frost action	1.00	Too clayey	    1.00    1.00  0.88	saturated zone	    1.00    1.00 

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	   Shallow excavati   	ons	   Lawns and landsca   	ping
	   		•	   Rating class and   limiting features		Rating class and limiting features	Value
					I		
I52A:		 				 	
Clearwater	30 	Depth to	1 1.00	Very limited:   Depth to	11.00	Very limited:   Depth to	1
	i	saturated zone		saturated zone		saturated zone	
	i	Frost action	1.00		1.00	Too clayey	1.00
		Low strength	1.00	Ponding	1.00	Ponding	1.00
	 	Shrink-swell Ponding	1.00  1.00		0.50 	 	
Clearwater, very	j I	 	į i	  -	į i	 	į
cobbly	   5	  Very limited:	i	  Very limited:	i	  Very limited:	i
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Frost action	1.00	•	1.00	Too clayey	1.00
	ļ		1.00	!	1.00	Ponding	1.00
	 	Shrink-swell Ponding	1.00  1.00	Too clayey 	0.50 	 	
Clearwater,	 	[ ]	 	 	 	[ [	
depressional	3	  Very limited:	i	  Very limited:	i	  Very limited:	i
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Depth to	1.00
	ļ	saturated zone	!	saturated zone	!	saturated zone	!
		Frost action	1.00	!	1.00		!
	 	Low strength Shrink-swell	1.00  1.00		0.50 	 	
Espelie	3	  Very limited:		  Very limited:		  Very limited:	
Doperie		Depth to	1.00		1.00		1.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	ĺ	Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
		Low strength	1.00		1.00		
	 	Shrink-swell Ponding	1.00  1.00		0.50 	 	 
Hattie	   2	    Very limited:	į	  Very limited:	į	  Very limited:	į
naccie	]	Low strength	1		1		1
	i	Shrink-swell	1.00			Depth to	0.10
	j	Frost action	0.50	Cutbanks cave	1.00	saturated zone	į
	 	Depth to saturated zone	0.10 	Too clayey 	0.50 	[ [	
Wasandakka				 		 	į
Wyandotte	+	Very limited:   Depth to	1 1.00	Very limited:   Depth to	1.00	Very limited:   Depth to	11.00
		saturated zone	1	saturated zone	1	saturated zone	1
	i	Frost action	1.00	!	1.00	Ponding	1.00
	į	Ponding	1.00	Ponding Too clayey	1.00	 	į
				100 Clayey			!
I53A:		 		 		 	1
Roliss	75 	Very limited:   Depth to	1.00	Very limited:   Depth to	  1.00	Very limited:   Depth to	11.00
		saturated zone	1	saturated zone	1	saturated zone	1
	i	Frost action	1.00	!	1.00	Ponding	1.00
	İ	Ponding	1.00	!	0.10	İ	İ
	I	Low strength	0.78	I	I	I	1

Table 20b.--Building Site Development--Continued

component name	Pct. of map	Local roads an streets	d	Shallow excavati   	ons	Lawns and landsca	ping
	unit   		,	   Rating class and   limiting features		   Rating class and   limiting features	Value
	İ		i	İ	İ	İ	İ
I53A: Kratka	   8   	Very limited: Depth to saturated zone	1.00	saturated zone	    1.00 	saturated zone	    1.00 
	     	Ponding	1.00  1.00  0.78	Ponding	1.00  1.00 	Ponding     	1.00     
Roliss, very cobbly	7   	saturated zone	  1.00    1.00	saturated zone	  1.00    1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	;     	!	1.00  0.78 	!	0.10   	 	     
Kittson	5       	Somewhat limited:   Low strength   Frost action 	  0.78  0.50 	! -	  1.00    0.10	Not limited       	     
Roliss, depressional	3         	Depth to saturated zone	  1.00  1.00    1.00  0.78	Depth to saturated zone	  1.00  1.00    0.10	Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00   
Smiley	   2         	Ponding	  1.00    1.00  1.00  0.78	saturated zone Ponding	  1.00    1.00  0.10	  Very limited:   Depth to   saturated zone   Ponding   	  1.00    1.00 
I54A:	į		į	į	į	į	į
Roliss, depressional	80         	Ponding Depth to saturated zone Frost action	  1.00  1.00    1.00  0.78	Depth to saturated zone	  1.00  1.00    0.10	Very limited:   Ponding   Depth to   saturated zone	  1.00  1.00 
Roliss	   12     	Depth to saturated zone Frost action	1.00    1.00	saturated zone Ponding	1.00    1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	   	Low strength	1.00  0.78 	 	0.10   	 	   
Hamre	5       	Depth to saturated zone	  1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00      0.10	Very limited:   Ponding   Content of   organic matter   Depth to	  1.00  1.00    1.00
	 	Low strength	0.78	 		saturated zone	 

Table 20b.--Building Site Development--Continued

component name	map	of streets		Shallow excavations		Lawns and landscaping		
	uniic   			   Rating class and   limiting features	•	Rating class and limiting features		
TE43.								
I54A: Kratka	   3 	  Very limited:   Depth to	1.00	! · · · · · · · · · · · · · · · · · · ·	1 1.00	! -	1 1.00	
	     	saturated zone Frost action Ponding Low strength	  1.00  1.00  0.78	Ponding	  1.00  1.00		  1.00   	
I55A:	 	 	 	 	 	 		
Rosewood	   75 	  Very limited:   Depth to	  1.00	  Very limited:   Depth to	1.00	  Very limited:   Depth to	1.00	
	   	saturated zone Ponding Frost action	  1.00  0.50	!	  1.00  1.00	!	  1.00 	
Ulen	   10	    Somewhat limited:   Frost action	,	    Very limited:   Depth to	    1.00	    Somewhat limited:   Depth to	    0.22	
	   	Depth to saturated zone	0.22	! -	1.00	saturated zone		
Hamar	   6 	  Very limited:   Depth to	:	  Very limited:   Depth to		  Very limited:   Depth to	    1.00	
	!	saturated zone Ponding	1.00	saturated zone Cutbanks cave	1.00	saturated zone Ponding	1.00	
	 	Frost action	0.50 	Ponding	1.00	Droughty	0.21	
Rosewood,	İ	 		 	<u> </u>	 	i	
depressional	3		:	Very limited:	•	Very limited:		
	 	Ponding Depth to	1.00	Ponding Depth to	1.00  1.00	!	1.00	
	 	saturated zone	1.00	saturated zone Cutbanks cave	1.00	saturated zone		
Syrene	   3 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	1	
	İ	saturated zone	i	saturated zone	İ	saturated zone	i	
	 	Ponding Frost action	1.00  0.50	!	1.00  1.00	!	1.00  0.30	
Karlsruhe	   1 	  Somewhat limited:   Frost action	    0.50	  Very limited:   Depth to	    1.00	  Somewhat limited:   Depth to	    0.22	
	 	Depth to saturated zone	0.22	saturated zone Cutbanks cave	1.00	saturated zone		
Strathcona	   1 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	
	 	saturated zone	į	saturated zone	į	saturated zone	į	
	   	Frost action   Ponding   Low strength	1.00  1.00  0.78	Ponding	1.00  1.00 		1.00   	
Thiefriver	   1 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	
	 	saturated zone Frost action	į	saturated zone	1.00	saturated zone	11.00	
	   	Ponding	1.00	!	1.00  1.00  0.50		1	

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	Shallow excavati   	ons.	Lawns and landsca	ping
	unit   			Rating class and   limiting features	•	   Rating class and   limiting features	
I57B: Sandberg	     50   	    Not limited   	       	    Very limited:   Cutbanks cave 	!	  Somewhat limited:   Droughty   Gravel content	    0.85  0.01
Radium	   25     	  Not limited     	       	  Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  0.96	  Somewhat limited:   Droughty   	  0.76 
Sioux	   8 	  Not limited 	   	  Very limited:   Cutbanks cave	1.00	  Somewhat limited:   Droughty	0.80
Oylen	   7     	  Somewhat limited:   Frost action   	    0.50 	  Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  0.96	  Somewhat limited:   Droughty   	0.01
Flaming	   5     	  Not limited     	       	  Very limited:   Cutbanks cave   Depth to   saturated zone	  1.00  1.00	  Somewhat limited:   Droughty   	  0.15 
Garborg	   5     	saturated zone	    0.78    0.50	saturated zone	  1.00    1.00	saturated zone	0.78
I58A: Seelyeville	   90           	Ponding Depth to saturated zone	    1.00  1.00    1.00	Depth to saturated zone	  1.00  1.00    1.00    0.10	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00   
Cathro	   3         	Depth to saturated zone Frost action	  1.00  1.00    1.00  0.78	Depth to   saturated zone   Content of	  1.00  1.00    1.00    0.10	-	  1.00  1.00    1.00
Dora	   3             	Depth to saturated zone	1.00  1.00 		1.00	Content of organic matter Depth to saturated zone	  1.00  1.00      1.00
Markey	   3           	Depth to saturated zone	1.00	Depth to saturated zone	1.00  1.00 	Content of   organic matter   Depth to	  1.00  1.00    1.00 

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	Shallow excavati   	ons	Lawns and landsca     	ping
		Rating class and	,	Rating class and limiting features			
I58A:	   	   	İ	   	İ	   	İ
Berner	1	  Very limited:	i	  Very limited:	i	  Very limited:	i
	į	Ponding	1.00	Ponding	1.00	Ponding	1.00
		<u> </u>	1.00	! -	1.00	!	1.00
	ļ	saturated zone		saturated zone		organic matter	
	   	Frost action   	1.00   		1.00  1.00 		1.00   
I59A:	į i	 	į	 	į i	  -	į
Smiley	65	  Very limited:	i	  Very limited:	i	  Very limited:	i
-	i	Depth to	:	Depth to	:	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
	ļ	Frost action		!	1.00	!	1.00
	 	_	1.00	!	0.10	 	
Smiley, very cobbly	   10			  Very limited:	•	  Very limited:	
	ļ	Depth to	,	! -	1.00	Depth to	1.00
		saturated zone	!	saturated zone		saturated zone	
	 	!	1.00	!	0.10	Ponding	1.00
	   	!	0.78	!		!   	
Kratka	   9	  Very limited:	1	  Very limited:	ŀ	  Very limited:	¦
	i	Depth to	:	Depth to	:	Depth to	1.00
	ĺ	saturated zone	İ	saturated zone	Ì	saturated zone	İ
		Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
	 	Ponding Low strength	1.00  0.78	!	1.00 	 	
Roliss	   5	  Very limited:	 	  Very limited:	 	  Very limited:	 
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone	,	saturated zone	!	saturated zone	
					!	Ponding	1.00
			1.00		0.10		
Reiner	   4	  Somewhat limited:		  Very limited:		  Not limited	
	ļ	Low strength	:	Depth to	1.00	1	!
		Frost action	0.50	saturated zone Cutbanks cave	0.10	 	
Linveldt	   3	  Somewhat limited:		  Very limited:	 	  Not limited	
		Frost action	0.50	Cutbanks cave	1.00		
	   	   	   	Depth to saturated zone	1.00 	   	
Smiley, depressional	3	  Very limited:	:	  Very limited:	!	  Very limited:	
	ļ	Ponding	1.00	!	1.00		1.00
		Depth to	1.00	! -	1.00	<u> </u>	1.00
	 	saturated zone Frost action	1.00	saturated zone Cutbanks cave	  0.10	saturated zone	
		Low strength	0.78			   	
Strandquist	1	  Very limited:	:	  Very limited:	•	  Very limited:	
	ļ	Depth to	1.00	! -	1.00	! -	1.00
		saturated zone Frost action	1.00	saturated zone Cutbanks cave	  1 00	saturated zone Ponding	11.00
	 	Frost action   Ponding	1.00	!	1.00		1
	i	!	0.78	!			i
	i	i	i	i	i	i	i

Table 20b.--Building Site Development--Continued

	Pct. of		d	   Shallow excavati 	ons	Lawns and landscaping		
	map							
	unit 		Value	   Rating class and	Value	Rating class and	Value	
	<u> </u>	limiting features		limiting features	•	limiting features		
TC03								
I60A: Smiley, depressional	l I 80	  Verv limited:		  Very limited:	 	  Very limited:	1	
Jan 10/7 / doprobblond		Ponding	1.00	! -	1.00	! -	1.00	
	İ	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	ļ	saturated zone		saturated zone		saturated zone	ļ	
	 	Frost action   Low strength	1.00  0.78	!	0.10 	 	 	
	i						i	
Smiley	10	! -	:	Very limited:	:	Very limited:	ļ	
		Depth to	1.00	Depth to	1.00	! -	1.00	
		saturated zone Frost action	1 00	saturated zone Ponding	  1.00	saturated zone Ponding	11.00	
		Ponding	11.00	!	0.10	Foliating	1	
	i	Low strength	0.78	!		İ	i	
Hamma		 		 		 		
Hamre	5 	Very limited:   Ponding	,	Very limited:   Ponding	:	Very limited:   Ponding	11.00	
		Depth to	:	Depth to	•	Content of	11.00	
	i	saturated zone		saturated zone		organic matter		
	į	Frost action	1.00	Cutbanks cave	0.10	Depth to	1.00	
		Low strength	0.78			saturated zone		
Kratka	l   5	  Very limited:		  Very limited:	 	  Very limited:		
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00	
		saturated zone		saturated zone		saturated zone		
	ļ	Frost action	1.00	!	1.00	Ponding	1.00	
	l I	Ponding Low strength	1.00  0.78	· -	1.00 	 		
	i			 		İ		
I61A:	70	 				 		
Strandquist	70 	Depth to	:	Very limited:   Depth to	:	Very limited:   Depth to	1 1.00	
	i	saturated zone		saturated zone		saturated zone		
	i	Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00	
		Ponding	1.00	Ponding	1.00			
		Low strength	0.78					
Mavie	8	  Very limited:	i	  Very limited:	 	  Very limited:		
	ĺ	Depth to	1.00	Depth to	1.00	Depth to	1.00	
		saturated zone	1	saturated zone		saturated zone		
		Frost action	1.00	!	1.00	Ponding	1.00	
	 	Ponding 	11.00	Ponding 	1.00 	Droughty 	0.01 	
Roliss	7	Very limited:	•	Very limited:	•	Very limited:	į	
	!	Depth to	1.00	! -	1.00	Depth to	1.00	
		saturated zone Frost action	1 00	saturated zone Ponding	  1 00	saturated zone Ponding	1.00	
		Ponding	11.00		0.10		1	
	İ	Low strength	0.78			İ	i	
Kratka		  Very limited:		  Very limited:		  Very limited:		
KI acka		Depth to		Depth to	1.00	:	1.00	
	i	saturated zone		saturated zone		saturated zone		
	İ	Frost action	1.00	Cutbanks cave	1.00	!	1.00	
	ļ	Ponding	1.00	:	1.00	!	!	
	 	Low strength	0.78 	 	 	 	1	
Foxhome	4	Somewhat limited:	i	  Very limited:	i	  Not limited	ĺ	
		Low strength	0.78	!	1.00	!		
		Frost action	0.50	! -	1.00		1	
				saturated zone	i .	i .		

Table 20b.--Building Site Development--Continued

Map symbol and component name	Pct. of map	   Local roads an   streets 	d	   Shallow excavati   	ons	   Lawns and landsca   	ping
	unit			<u> </u>			
	 	Rating class and limiting features	Value 	Rating class and   limiting features		Rating class and   limiting features	Value
I61A:		 		 		  -	
Hangaard	3	  Very limited:	i	  Very limited:	i	  Very limited:	i
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	ļ
	 	Ponding Frost action	1.00	!	1.00	Ponding Droughty	1.00
	i						
Northwood	3	Very limited:	İ	Very limited:	İ	Very limited:	İ
	ļ	Ponding	1.00	!	1.00	!	1.00
	l I	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1	!	1	Sacuraced Zone	i
	i	Low strength	0.78	!			i
I62A:	 	l I		 		 	
Syrene	70	  Very limited:		  Very limited:		  Very limited:	
	į	Depth to	1.00	Depth to	1.00	Depth to	1.00
	ļ	saturated zone	!	saturated zone	!	saturated zone	İ
		Ponding	1.00	!	11.00	Ponding	1.00
	 	Frost action 	0.50 	Ponding 	1.00	Droughty 	0.30 
Rosewood	11	Very limited:	i	Very limited:	i	Very limited:	i
		Depth to	1.00	! -	1.00	! -	1.00
		saturated zone Ponding	1.00	saturated zone Cutbanks cave	1.00	saturated zone Ponding	11.00
		Frost action	0.50	!	1.00		1.00
	i	İ	i	İ	i	İ	i
Hangaard	5	Very limited:	:	Very limited:	:	Very limited:	İ
		Depth to	1.00	! -	1.00	! -	1.00
	l I	saturated zone Ponding	1 1.00	saturated zone Cutbanks cave	1	saturated zone Ponding	1
	i	Frost action	0.50	!	1.00	Droughty	0.92
Karlsruhe		Somewhat limited:		  Very limited:		Somewhat limited:	
Rai isi mie	<del>*</del>	Frost action	0.50	! -	1	!	0.22
	i	Depth to	0.22	! -	i	saturated zone	i
		saturated zone		Cutbanks cave	1.00		
Deerwood	   3	  Very limited:	 	  Very limited:	 	  Very limited:	
	į	Ponding	1.00	! -	1.00	!	1.00
		Depth to	1.00	! -	1.00	Depth to	1.00
		saturated zone Frost action		saturated zone	11.00	saturated zone	!
		Flost action	1.00	Cutbanks cave	1	 	
Hamar	3	Very limited:	į	Very limited:	İ	Very limited:	į
		•	•	Depth to		Depth to	1.00
	l I	saturated zone Ponding	:	saturated zone Cutbanks cave	!	saturated zone Ponding	1
	 			!	:	Droughty	0.21
			į		į		į
Strandquist	2 		1	Very limited:   Depth to	:	Very limited:   Depth to	11.00
		saturated zone		Depth to   saturated zone	:	Depth to   saturated zone	1
	i		1	!	:	Ponding	1.00
		Ponding	1.00	Ponding	1.00		İ
		Low strength	0.78	 		 	
Radium	   1	  Not limited		  Very limited:		  Somewhat limited:	
	į		i	! -	1.00	!	0.76
				Depth to	0.96		1
		_		saturated zone			

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	   Shallow excavati   	ons	Lawns and landsca	ping
	unit   		Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
	l				1		
I62A: Wyandotte	   1 	<u>.                                      </u>	    1.00	! -	    1.00		    1.00
	     	!	  1.00  1.00 	!	  1.00  1.00  0.50	saturated zone Ponding	  1.00 
I63A:	 	 	 	 		 	
Thiefriver	70   70	Depth to	1.00	! -	1.00	! -	1.00
	     	!	  1.00  1.00 	!	  1.00  1.00  0.50	saturated zone   Ponding   	  1.00   
Espelie	   10 	Depth to	    1.00	! -	    1.00	  Very limited:   Depth to	    1.00
	       	Low strength Shrink-swell	  1.00  1.00  1.00	Ponding Too clayey	  1.00  1.00  0.50	saturated zone   Ponding   	  1.00   
Foxlake	   7         	saturated zone Frost action Low strength Shrink-swell	  1.00    1.00  1.00  1.00	saturated zone Ponding Too clayey Cutbanks cave	  1.00    1.00  0.50  0.10	  Very limited:   Depth to   saturated zone   Ponding   	  1.00    1.00 
Huot	   5     	  Somewhat limited:   Frost action   	    0.50   	  Very limited:   Cutbanks cave   Depth to   saturated zone   Too clayey	  1.00  1.00    0.50	  Not limited       	       
Clearwater,	 	 	l i	 		 	
depressional	3           	saturated zone Frost action Low strength	  1.00  1.00    1.00  1.00  1.00	Depth to saturated zone Cutbanks cave Too clayey	  1.00  1.00    1.00  0.50	Very limited:   Ponding   Depth to   saturated zone 	  1.00  1.00   
Rosewood	   3     	saturated zone Ponding	  1.00    1.00  0.50	saturated zone Cutbanks cave	  1.00    1.00  1.00	   Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Ulen	   1     	'	    0.50  0.22 		  1.00    1.00	  Somewhat limited:   Depth to   saturated zone	  0.22   

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	Shallow excavations     		Lawns and landscaping	
		'		Rating class and limiting features		Rating class and limiting features	
I63A: Wyandotte	   1   1     	Depth to   saturated zone   Frost action	1.00    1.00	saturated zone Cutbanks cave Ponding	1.00		    1.00    1.00
I64A: Ulen	     70     	Frost action	0.50	saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	      0.22 
Rosewood	   10       	Depth to saturated zone Ponding	1.00	saturated zone Cutbanks cave	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
Flaming	   8     	  Not limited     	       	Cutbanks cave	1.00	  Somewhat limited:   Droughty   	  0.15 
Karlsruhe	   5     	Frost action	0.50	saturated zone	1.00	  Somewhat limited:   Depth to   saturated zone	  0.22   
Radium	   3   	  Not limited   	       		  1.00  0.96		  0.76   
Strathcona	   2       	Depth to saturated zone Frost action Ponding	1.00	Depth to saturated zone Cutbanks cave Ponding	1.00		  1.00    1.00 
Thiefriver	 	Depth to saturated zone Frost action	1.00    1.00	saturated zone Cutbanks cave Ponding	1.00	!	  1.00    1.00 
I65A: Ulen	70       	Frost action	0.50	saturated zone	,	  Somewhat limited:   Depth to   saturated zone	    0.22   
Rosewood	   10         	Depth to   saturated zone   Ponding	1.00    1.00	Depth to saturated zone Cutbanks cave	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00 

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	   Shallow excavati     	ons	   Lawns and landsca     	ping
	   	Rating class and	•	Rating class and   limiting features	•		
I65A: Flaming	     6   	  Not limited 	         	!	1.00	  Somewhat limited:   Droughty   	      0.15 
Poppleton	   4   	Not limited	       	!	!	  Somewhat limited:   Droughty 	  0.09 
Karlsruhe	   3     		0.50	saturated zone		  Somewhat limited:   Depth to   saturated zone 	  0.22 
Radium	   3     	  Not limited   	       	Cutbanks cave	1.00  0.96		  0.76   
Strathcona	   2       	saturated zone Frost action Ponding	1.00    1.00	saturated zone Cutbanks cave Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00 
Thiefriver	   2       	Depth to saturated zone Frost action	1.00    1.00	Depth to saturated zone Cutbanks cave Ponding	1.00	!	  1.00    1.00 
I66A: Vallers	   75       	Depth to saturated zone Frost action Ponding	1.00    1.00	Depth to saturated zone Ponding	1.00	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00
Vallers, very cobbly	   7       	saturated zone Frost action Ponding	1.00    1.00	saturated zone Ponding Cutbanks cave	1.00	  Very limited:   Depth to   saturated zone   Ponding 	  1.00    1.00 
Hamerly	   6     	Frost action Depth to saturated zone	!	Cutbanks cave	  1.00    0.10	saturated zone	    0.90   
Grimstad	   3     	•	:	Very limited: Depth to saturated zone Cutbanks cave	  1.00    1.00	saturated zone	  0.78   

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	   Shallow excavati     	ons	Lawns and landsca   	ping
	   	'		Rating class and limiting features	•	Rating class and limiting features	
I66A:				 		 	
Mavie	   3 	saturated zone	1.00	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	1.00
	 	!	1.00	!	1.00		1.00
Roliss, depressional	   3   	· -	1.00	  Very limited:   Ponding   Depth to	    1.00  1.00	_	    1.00  1.00
	     	saturated zone	  1.00  0.78	saturated zone Cutbanks cave	  0.10 	saturated zone	
Strathcona	   3 	  Very limited:   Depth to   saturated zone		  Very limited:   Depth to   saturated zone	!	  Very limited:   Depth to   saturated zone	    1.00
	     	Ponding	1.00  1.00  0.78	Ponding	1.00  1.00 		1.00   
I67A:	İ	 		 			i
Wheatville	70     	Frost action	:	Very limited:   Depth to   saturated zone   Too clayey	!	Somewhat limited:   Depth to   saturated zone	  0.90   
				Cutbanks cave	0.10		
Augsburg	   13   	! -	:	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Depth to   saturated zone	    1.00
	   	!	1.00  1.00 	Ponding	1.00  1.00  0.50		1.00   
Glyndon	   8     	saturated zone	    1.00    1.00	saturated zone	!	  Very limited:   Depth to   saturated zone 	  1.00 
Foxlake	   5 	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00	  Very limited:   Depth to	    1.00
	       	Low strength Shrink-swell	  1.00  1.00  1.00  1.00	Too clayey Cutbanks cave	  1.00  0.50  0.10	_	  1.00   
Hilaire	   2     	  Somewhat limited:   Frost action   	    0.50   	  Very limited:   Cutbanks cave   Depth to   saturated zone   Too clayey	  1.00  1.00    0.50	  Not limited     	
Ulen	   2     	!	    0.50  0.22 	! -	    1.00    1.00	  Somewhat limited:   Depth to   saturated zone	  0.22 

Table 20b.--Building Site Development--Continued

	Pct. of	Local roads an	ıd	Shallow excavati 	ons	Lawns and landscaping	
	  map  unit	j I		i I		i I	
		Rating class and	•	Rating class and			Value
	<u> </u>	limiting features		limiting features	1	limiting features	
I69A:	 	 		 	1	 	
Wyandotte	65	Very limited:	i	  Very limited:	i	  Very limited:	i
-	i	Depth to	1.00	! -	1.00	! -	1.00
	į	saturated zone	İ	saturated zone	İ	saturated zone	į
	ĺ	Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
		Ponding	1.00	Ponding	1.00		
	ļ			Too clayey	0.50	!	!
_ ,,					!		!
Foxlake	10		:	Very limited:	:	Very limited:	
	 	Depth to	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	 	saturated zone   Frost action	1	!	1	Saturated Zone   Ponding	1 1.00
		!	1.00		0.50	ronarng 	1
	! 	Shrink-swell	1.00	!	0.10	! [	i
	i	Ponding	1.00			İ	i
	i	i	i	İ	i		i
Espelie	8	Very limited:	İ	Very limited:	į	Very limited:	į
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Frost action	1.00	1	1.00	Ponding	1.00
			1.00	:	1.00		
	ļ	Shrink-swell	1.00	!	0.50		!
		Ponding	1.00		!		!
Clearmater		l I		 		 	!
Clearwater, depressional	   5	  Very limited:		  Very limited:		  Very limited:	-
depressionar		Ponding	11.00	! -	11.00	! -	1.00
	i	Depth to	11.00	!	1.00	Depth to	11.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	i	Frost action	1.00	Cutbanks cave	1.00	İ	i
	İ	Low strength	1.00	Too clayey	0.50	j	į
		Shrink-swell	1.00				
Thiefriver	5	Very limited:	:	Very limited:	!	Very limited:	!
	ļ	Depth to	1.00	! -	1.00	! -	1.00
		saturated zone		saturated zone		saturated zone	
	 	Frost action   Ponding	11.00	!	11.00	Ponding	1.00
	 	Ponding	1.00	Ponding Too clayey	1.00  0.50	 	-
		! 	i	100 clayey	1	 	1
Karlsruhe	4	Somewhat limited:	i	  Very limited:	i	  Somewhat limited:	i
	i	Frost action	0.50	! -	1.00	Depth to	0.22
	i	Depth to	0.22	:	İ	saturated zone	i
	ĺ	saturated zone	İ	Cutbanks cave	1.00	ĺ	Ì
Syrene	3	Very limited:	:	Very limited:		Very limited:	
	ļ	Depth to	1.00	! =	1.00	! -	1.00
		saturated zone		saturated zone		saturated zone	
	 	Ponding   Frost action	1.00		11.00		1.00
	l I	flost action	0.50 	Ponding	1.00	promaire	0.30
I70A:		! 	1	! 	1	! 	
Strathcona	70	  Very limited:	i	  Very limited:	i	  Very limited:	i
	i	Depth to	1.00	:	1.00	:	1.00
	i	saturated zone	i	saturated zone	i	saturated zone	i
	İ	Frost action	1.00		1.00	Ponding	1.00
		Ponding	1.00	Ponding	1.00		
		Low strength	0.78				
	   	!	•		1.00   	 	

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	Shallow excavati   	ons	Lawns and landscaping		
	unit   	Rating class and		   Rating class and   limiting features				
7000								
I70A: Kratka	   10 	Depth to	1.00	! -		  Very limited:   Depth to	1	
	     	Ponding	1.00	Ponding	  1.00  1.00 	saturated zone   Ponding   	  1.00   	
Roliss	   6 	! -	1.00	  Very limited:   Depth to   saturated zone	1.00	  Very limited:   Depth to   saturated zone	    1.00	
	     	Frost action Ponding	1.00	Ponding Cutbanks cave	:	Ponding	1.00	
Grimstad	:	Frost action	!	! -	!	  Somewhat limited:   Depth to   saturated zone	    0.78 	
		saturated zone		Cutbanks cave	1.00			
Mavie	   3 	! -	:	! -	!	  Very limited:   Depth to	    1.00	
	   	!	1.00	!		saturated zone Ponding Droughty	  1.00  0.01	
Rosewood	   3 	! -	1.00	  Very limited:   Depth to   saturated zone	:	  Very limited:   Depth to   saturated zone	    1.00	
	 	· -	:	!	1.00	Ponding	1.00	
Strathcona,	i	İ	İ	İ	İ		i	
depressional	3	Very limited:	:	Very limited:		Very limited:		
	 		1.00	· -	1.00	Ponding Depth to	1.00	
	     	saturated zone	İ	saturated zone Cutbanks cave	1.00	saturated zone		
I71A:	 	 	 	 	 	 		
Berner, ponded	   45   	Ponding	  1.00  1.00	· -	  1.00  1.00		  1.00  1.00	
	     	saturated zone Frost action	  1.00   	•	  1.00  1.00		  1.00 	
Cathro, ponded	   45 	! - T	    1.00	  Very limited:   Ponding	    1.00	  Very limited:   Ponding	1	
		saturated zone	1.00	saturated zone	1.00	organic matter	1.00	
	   	!	1.00  0.78 	!	1.00    0.10	Depth to   saturated zone 	1.00   	

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	đ	Shallow excavati     	ons	Lawns and landscaping     	
		Rating class and	•	Rating class and   limiting features			
			İ				İ
I71A: Hamre	   2	  Very limited:	 	  Very limited:	l I	  Very limited:	
	İ		1.00			Ponding	1.00
		_	:		,	Content of	1.00
		saturated zone		saturated zone	!	organic matter	
	 		0.78	1	0.10 	Depth to saturated zone	1.00
Kratka	   2	  Very limited:	 	  Very limited:	 	  Very limited:	
		•		! =	:	Depth to	1.00
		saturated zone	:	saturated zone	!	saturated zone	
	 		!	Cutbanks cave	1.00	!	1.00
			0.78				
Northwood	   2	  Very limited:	 	  Very limited:	 	  Very limited:	
		-			:	Ponding	1.00
		Depth to saturated zone	!	Depth to saturated zone	!	Depth to saturated zone	1.00
	 		1	!	11.00		1
	į		0.78	!			į
Roliss	   2	  Very limited:		  Very limited:	 	  Very limited:	
	ļ	Depth to	:	Depth to	:	Depth to	1.00
	 	saturated zone Frost action	!	saturated zone Ponding	!	saturated zone Ponding	11.00
	 		11.00	!	0.10	!	1
	į	_	0.78		į		į
Seelyeville, ponded	2	  Very limited:		  Very limited:		  Very limited:	i
		_	:		:	Ponding	1.00
	l I	Depth to saturated zone	11.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	i	Frost action	1.00	Content of	1.00	!	i
	į	İ	į	organic matter	j	İ	į
	 	 	 	Cutbanks cave	0.10 	[ [	
172A:			į	 	į	 	į
Pelan	65 			Very limited:   Cutbanks cave	1.00	Not limited 	1
	İ		•	!	1.00	!	i
	İ		İ	saturated zone	İ	 	İ
Smiley	1 10			Very limited:		  Very limited:	i
		· -	1.00	Depth to	1.00	Depth to	1.00
	 	saturated zone Frost action	  1.00	saturated zone Ponding	  1.00	saturated zone Ponding	11.00
	i		1.00		0.10		1
	į	Low strength	0.78	İ	į	 	į
Linveldt	8	•	•	  Very limited:	,	  Not limited	
		Frost action	0.50	!	1.00	!	
	 	 	 	Depth to saturated zone	1.00 	 	
Kratka	   5	  Very limited:	 	  Very limited:	 	  Very limited:	
	į	· -	•	Depth to		Depth to	1.00
	ļ	saturated zone	ļ	saturated zone	!	saturated zone	!
			!	Cutbanks cave	,	Ponding	1.00
	l I	_	1.00  0.78		1.00 	I I	 
	i			i	i	i	1

Table 20b.--Building Site Development--Continued

component name	Pct. of map unit	streets	d	Shallow excavati     	ons	Lawns and landscaping	
	i 	'		Rating class and limiting features	•	Rating class and   limiting features	
I72A: Strandquist	i I	Depth to saturated zone	1.00	Depth to saturated zone	1.00	saturated zone	:
	   	Ponding	:		1.00  1.00 	!	1.00   
Reiner	4   4   	!	•	Depth to saturated zone	  1.00    0.10	į	       
Eckvoll	   3     			Cutbanks cave	1.00	!	         
I73A: Boash	   75   	Depth to saturated zone	1.00	Depth to saturated zone	1.00	  Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00
	       	Shrink-swell		Cutbanks cave	0.50  0.10 	!	     
Clearwater	   	Depth to saturated zone Frost action Low strength Shrink-swell	1.00    1.00	Depth to saturated zone Cutbanks cave Ponding Too clayey	1.00	saturated zone Too clayey Ponding	  1.00    1.00  1.00
Roliss	   8         	Depth to saturated zone Frost action	1.00    1.00	Depth to saturated zone Ponding Cutbanks cave	1.00		  1.00    1.00 
Clearwater, depressional	   	Ponding Depth to saturated zone Frost action Low strength	1.00  1.00	Depth to   saturated zone   Cutbanks cave   Too clayey	1.00	Depth to   saturated zone	  1.00  1.00   
Kittson	   2   	  Somewhat limited:   Low strength   Frost action 	  0.78  0.50	saturated zone	1.00	  Not limited     	     
Newfolden	   2     	  Somewhat limited:   Low strength   Frost action		  Very limited:   Depth to   saturated zone   Cutbanks cave	  1.00    0.10	İ	

Table 20b.--Building Site Development--Continued

component name	Pct. of map	streets	đ	   Shallow excavati   	ons	   Lawns and landsca   	ping
	unit	!					
	 			Rating class and limiting features			
174A:	l I	 	 	 	 	 	
Urban land	   65 	  Not rated 	   	  Not rated 	   	  Not rated 	į
Endoaquents	   35 	  Not rated 	į	  Not rated 		  Not rated 	į
175A:	<u> </u>				i		i
Radium	40     	Not limited     	     	1	  1.00  0.96 		  0.76   
Sandberg	   20   	  Not limited   	     	  Very limited:   Cutbanks cave	    1.00	  Somewhat limited:   Droughty   Gravel content	  0.85  0.01
Garborg	   15	  Somewhat limited:	 	  Very limited:	 	  Somewhat limited:	 
Garborg		Depth to saturated zone	0.78 	Depth to saturated zone	1.00 	Depth to saturated zone	0.78
	 	Frost action		Cutbanks cave		Droughty 	0.02
Oylen	10     	•		Very limited: Cutbanks cave Depth to saturated zone			  0.01 
Flaming	   5   	  Not limited     	       	!	    1.00  1.00	  Somewhat limited:   Droughty 	    0.15   
	į .		į		į		į
Karlsruhe	3     	Frost action	0.50  0.22	saturated zone	:	Somewhat limited:   Depth to   saturated zone 	  0.22   
Venlo		  Very limited:		  Very limited:	 	  Very limited:	
V01110			•		:	Ponding	1.00
	ļ		1.00	<u> </u>	1.00	Depth to	1.00
	 	saturated zone	  0.50	saturated zone Cutbanks cave	1.00	saturated zone Droughty	0.01
Hangaard	   2       	saturated zone Ponding	1.00    1.00	saturated zone Cutbanks cave	1.00	Very limited: Depth to saturated zone Ponding Droughty	  1.00    1.00  0.92
Sioux	   2 	  Not limited 	   	  Very limited:   Cutbanks cave	:	  Somewhat limited:   Droughty	0.80
M-W: Miscellaneous water	    100 	    Not rated 	     	    Not rated 	     	    Not rated 	     
W: Water	  100 	  Not rated 	   	  Not rated 	   	  Not rated 	 

## Table 21a.--Construction Materials

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

	Pct.	•	urce	Potential as sou of sand	ırce
	map  unit	į		 	
	<u> </u>	Rating class	Value	Rating class	Value
D1003 -					-
B109A: Bowstring	l I 45	  Poor:	-	  Poor:	-
20202 29		Bottom layer	:	Bottom layer	0.00
	į	Thickest layer	0.00	!	0.00
Fluvaquents	   40	Poor:		  Fair:	
		Bottom layer	0.00	Thickest layer	0.01
		Thickest layer	0.00	Bottom layer	0.03
Hapludalfs	   5	  Poor:		Poor:	
		Bottom layer	0.00	Bottom layer	0.00
	 	Thickest layer	0.00 	Thickest layer 	0.00
Seelyeville	5	Poor:		Poor:	į
	ļ	Bottom layer		Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Water	5 	Not rated	į	Not rated	į
B200A:		! 		 	
Garnes	70	Poor:		Poor:	
	ļ	Bottom layer	:	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Chilgren	13	Poor:		Poor:	į
		Bottom layer	0.00	!	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00
Eckvoll	5	Poor:		Fair:	
	ļ	Bottom layer	:	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.33
Garnes, very stony	5	Poor:		Poor:	i
	ļ	Bottom layer	0.00	!	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Grygla	4	Poor:	i	Fair:	i
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.16
Pelan	3	  Poor:		Poor:	i
		Bottom layer	0.00	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00
B201A:	į	İ	į		į
Chilgren	75	Poor:	:	Poor:	
	 	Bottom layer	0.00	!	0.00
		Thickest layer 	0.00 	Inickest layer 	0.00 
Garnes	9	Poor:	:	Poor:	Ţ
	ļ	Bottom layer	0.00	!	0.00
	1	Thickest layer	0.00	Thickest layer	0.00

Table 21a.--Construction Materials--Continued

Map symbol and component name	of	Pct.  Potential as source     of   of gravel    map		   Potential as sou   of sand 	ırce
	unit	:		! 	
	<u>i</u>	Rating class	Value	Rating class	Value
B201A:		l I		 	l
Grygla	5	Poor:	i	  Fair:	i
	İ	Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.16
Grygla, depressional	.   5	Poor:	i	  Fair:	i
	ļ	Bottom layer	1	:	1
		Thickest layer 	0.00 	Thickest layer 	0.16 
Hamre		Poor:		Poor:	i
	!	Bottom layer	1	:	1
		Thickest layer 	0.00 	Thickest layer 	0.00 
Pelan	1	Poor:		Poor:	i
				Bottom layer	
		Thickest Layer	0.00 	Thickest layer 	0.00 
B202A:	į	į	į	į	į
Cathro	80	Poor:	:	Poor:	10.00
	i			Bottom layer Thickest layer	
	į	İ	į	į	į
Hamre		Poor:		Poor:	
	l I	Bottom layer   Thickest layer		Bottom layer   Thickest layer	
	i				
Chilgren		Poor:		Poor:	
 	l I	Bottom layer   Thickest layer		Bottom layer   Thickest layer	
	i				
Northwood		Poor:		Fair:	
		Bottom layer   Thickest layer		Bottom layer   Thickest layer	
	i	İ	i		i
Berner	1	Poor:	:	Poor:	
	l I	Bottom layer   Thickest layer		Bottom layer   Thickest layer	
	i	İ	i		i
Grygla	2	Poor:		Fair:	
				Bottom layer Thickest layer	0.00  0.16
	i	İ	i		i
Seelyeville	2	Poor:	•	Poor:	
	l I	Bottom layer   Thickest layer		Bottom layer Thickest layer	0.00
	i				
B203A: Northwood	75	   Dooma	ļ	  Enima	
NOT CHWOOD	/3			Fair:   Bottom layer	0.00
	i	Thickest layer		Thickest layer	
Hamre		  Boore		Poor:	
haiii e	10		:	Bottom layer	0.00
	į	Thickest layer	1	Thickest layer	0.00
Grygla	7	  Poor:	-	  Fair:	
Giygia	' '		:	Bottom layer	0.00
	į	Thickest layer	1	Thickest layer	0.16
Berner		  Poor:	ļ	Poort	
Permer	]		:	Poor:   Bottom layer	0.00
	İ	Thickest layer	1	Thickest layer	0.00
			1	l	

Table 21a.--Construction Materials--Continued

Map symbol and component name	Pct. of map	of gravel		Potential as source of sand	
	unit	:		 	
		Rating class	Value	Rating class	Value
D2023 -					
B203A: Chilgren	l I 3	  Poor:		  Poor:	-
5	:	Bottom layer		Bottom layer	0.00
	İ	Thickest layer	0.00	Thickest layer	0.00
B2043.			ļ		
B204A: Roliss	l l 75	  Poor:		  Poor:	
	i	!		Bottom layer	0.00
	ļ	Thickest layer	0.00	Thickest layer	0.00
Grygla	l I8	  Poor:	l I	  Fair:	l I
orygra		Bottom layer		•	0.00
	į	Thickest layer	0.00	Thickest layer	0.16
Chilaman		   Dooma	ļ	  Poor:	
Chilgren	:	Bottom layer		!	0.00
	į	Thickest layer		Thickest layer	0.00
_	_		ļ		!
Garnes	:	Poor:   Bottom layer		Poor:   Bottom laver	1
	i	Thickest layer		Thickest layer	0.00
	ļ	!	ļ	!	İ
Roliss, depressional	5 	:		Poor:   Bottom layer	10.00
i		Thickest layer		Thickest layer	0.00
	į	İ	İ	İ	į
Hamre	2	Poor:		Poor:	
	l	Bottom layer   Thickest layer	:	Bottom layer Thickest layer	0.00
	į	İ	İ	İ	į
B205A: Berner		  Poor:	ļ	  Poor:	
Berner	00	Bottom layer		Bottom layer	0.00
	į	<u> </u>	:	Thickest layer	0.00
Arout house A	_	l Barana		les to	-
Northwood	7	Poor:   Bottom layer		Fair:   Bottom layer	0.00
	i	Thickest layer	:	Thickest layer	0.16
	_		ļ	<u> </u>	ļ
Grygla	5 	Poor:   Bottom layer		Fair:   Bottom layer	1
	i	Thickest layer		Thickest layer	0.16
	ļ	!	ļ	!	İ
Cathro	3	Poor:   Bottom layer	  0.00	Poor:	
	i	Thickest layer	0.00	· -	0.00
	į	į	İ	į	į
Hamre	3	Poor:		Poor:	
		Bottom layer Thickest layer	0.00  0.00		0.00
	İ				
Seelyeville	2	Poor:		Poor:	
	 	Bottom layer   Thickest layer	0.00  0.00		0.00
		Interest rater		Interest tayer	
B206A:	į	İ	į	İ	į
Hamre	80	Poor:		Poor:	
	 	Bottom layer Thickest layer	0.00  0.00		0.00
	i				

Table 21a.--Construction Materials--Continued

component name				Potential as source of sand		
	unit 	Rating class	Value	Rating class	Value	
D2063 -						
B206A: Chilgren	   8 	  Poor:   Bottom layer	    0.00		1	
		Thickest layer				
Northwood						
		Bottom layer   Thickest layer				
Cathro	3	  Poor:		  Poor:		
		Bottom layer   Thickest layer				
	İ	İ	į	İ		
Grygla		Poor:   Bottom layer	10.00		10.00	
		Thickest layer				
Roliss		  Poor:		  Poort		
ROIISS		Bottom layer			0.00	
	 	Thickest layer 	0.00 	Thickest layer 	0.00	
B207A: Pelan	   70	  Poor:	į i	Poor	į	
	j	Bottom layer	0.00	Bottom layer		
		Thickest layer	0.00 	Thickest layer	0.00	
Chilgren		•	•	Poor:	ļ	
		Bottom layer   Thickest layer				
Garnes	   10	  Poor:		  Poor:		
		Bottom layer Thickest layer				
	 	Inickest layer		Thickest layer		
Eckvoll		Poor:   Bottom layer	•	Fair:		
		Thickest layer				
Grygla	   5	  Poor:		  Fair:		
	:	Bottom layer	0.00	Bottom layer	0.00	
	 	Thickest layer 	0.00 	Thickest layer	0.16	
B208A: Grygla	   75	  Poor:		  Fair:	l I	
				Bottom layer	0.00	
	 	Thickest layer 	0.00 	Thickest layer 	0.16	
Chilgren	10	•		Poor:	į	
	 			Bottom layer Thickest layer		
	į _	İ	į	į	į	
Eckvoll	5 	•	•	Fair:   Bottom layer	10.00	
				Thickest layer		
Grygla, depressional	   5	•	•	  Fair:	ŀ	
				Bottom layer		
		İ		Thickest layer 	10.10	
Northwood	5 	•	•	Fair:		
				Bottom layer Thickest layer		
	İ	i -	İ	i	i	

Table 21a.--Construction Materials--Continued

	Pct.  Potential as source   of   of gravel  map		ource	ce   Potential as source   of sand		
	unit 		Value	Rating class	Value	
	İ	İ	i	İ	i	
B209A: Seelyeville	   00	   Dooma	ļ	   Dooma		
peetleville	30 			Poor:   Bottom layer	10.00	
	i	Thickest layer		Thickest layer		
Cathro	   3	  Poor:		  Poor:	l I	
	i	•			0.00	
		Thickest layer	0.00	Thickest layer	0.00	
Dora	   3	  Poor:		  Poor:		
		:		!	0.00	
	 	Thickest layer 	0.00 	Thickest layer 	0.00 	
Markey	3	Poor:		Fair:		
	 	:		Thickest layer	0.00	
	 	Thickest layer 	0.00	Bottom layer 	0.90 	
Berner	1	Poor:		Poor:		
	 	Bottom Layer   Thickest layer		Bottom layer   Thickest layer	0.00	
B210A: Eckvoll	   70	  Poor:		  Fair:	l I	
	İ			Bottom layer	0.00	
		Thickest layer	0.00	Thickest layer	0.33	
Chilgren	   12	  Poor:		  Poor:		
	ļ			Bottom layer	0.00	
	 	Thickest layer 	0.00 	Thickest layer 	0.00 	
Grygla		Poor:		Fair:	į	
	 	Bottom layer Thickest layer		Bottom layer   Thickest layer	0.00  0.16	
	į	į	į	į		
Garnes	7	Poor:		Poor:		
	 			Bottom layer   Thickest layer	0.00	
_ •	į	į	į	į	į	
Pelan	3 	Poor:   Bottom layer		Poor:   Bottom layer	  0.00	
				Thickest layer	0.00	
B211A:	 	 		 		
Berner, ponded	45	•		Poor:	i	
		:		Bottom layer	0.00	
	 	Thickest layer 	10.00	Thickest layer 	0.00 	
Cathro, ponded	45	:	:	Poor:		
	l I	Bottom layer Thickest layer		Bottom layer   Thickest layer	0.00	
	i					
Chilgren	2	Poor:   Bottom layer	:	Poor:   Bottom layer	  0.00	
	<u> </u>	Thickest layer		Thickest layer	0.00	
Grygla	   2	  Poor:		  Fair:	 	
12	, <b>-</b>	Bottom layer	:	Bottom layer	0.00	
	į	Thickest layer		Thickest layer	0.16	
Hamre	   2	  Poor:		  Poor:	 	
	İ	Bottom layer	:	Bottom layer	0.00	
	ļ	Thickest layer	0.00	Thickest layer	0.00	
	 	Thickest layer 	0.00	Thickest layer 	0.0	

Table 21a.--Construction Materials--Continued

	Pct.	Potential as sou	ırce	Potential as sou of sand	rce
=	map	!			
	unit	:		İ	
	Ĺ	Rating class	Value	Rating class	Value
B211A:					ļ
Northwood	   2	  Poor:	i	  Fair:	ł
	i	•	0.00	Bottom layer	0.00
	İ	Thickest layer	0.00	Thickest layer	0.16
Seelyeville, ponded	2	  Poor:		  Poor:	
		Bottom layer	0.00	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer	0.00
I1A:	i	İ	i	İ	İ
Augsburg	75	Poor:	:	Poor:	
		<u> </u>	1	Bottom layer	0.00
	 	Thickest layer		Thickest layer 	0.00
Borup	10	Poor:	,	Poor:	1
	ļ	· -	:	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Foxlake	5	Poor:	i	Poor:	i
		Bottom layer	0.00	Bottom layer	0.00
	 	Thickest layer	0.00	Thickest layer	0.00
Augsburg,	i	 	i	İ	
depressional	3	Poor:		Poor:	
	ļ	<u> </u>	1	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Wheatville	3	Poor:	,	Poor:	į
	ļ	Bottom layer	1	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Glyndon	2	Poor:	,	Poor:	į
	ļ	Bottom layer	1	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Espelie	1	Poor:	,	Fair:	į
		Bottom layer	1	Bottom layer	0.00
	 	Thickest layer 	0.00	Thickest layer 	0.13
Hattie	1	Poor:		Poor:	ļ
	ļ	<u> </u>	1	Bottom layer	0.00
	 	Thickest layer 	0.00	Thickest layer 	0.00 
I3A:		  Poor:		  Not rated	
Berner	00 	!	0.00	Not rated	-
		<u> </u>	0.00	İ	
Northwood	   7	  Poor:		  Fair:	
Not chinoca	, '	Bottom layer	,	Bottom layer	0.00
	į	<u> </u>	:	Thickest layer	0.13
Kratka	   5	  Poor:	 	  Poor:	
	i	Bottom layer	,	Bottom layer	0.00
	į	<u> </u>	0.00	Thickest layer	0.00
Hamre	   3	  Poor:		  Poor:	
	İ	Bottom layer	:	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
		 		Interest taket	

Table 21a.--Construction Materials--Continued

		Pct.   Potential as source   of   of gravel		Potential as sou of sand	ırce
	map  unit	:		 	
		Rating class	Value	Rating class	Value
I3A:	 	 		 	
Strathcona	   3 	  Poor:   Bottom layer   Thickest layer	0.00		0.00
Seelyeville	   2   	  Poor:   Bottom layer   Thickest layer	    0.00  0.00	  Not rated   	
14A:			ļ	 	
	   30   	  Poor:   Bottom layer   Thickest layer	0.00	  Not rated   	
Rosewood, depressional	     30	    Poor:		    Fair:	
	   	Bottom layer   Thickest layer	:	Thickest layer   Bottom layer 	0.02  0.25
Strathcona, depressional	     30   	  Poor:   Bottom layer   Thickest layer		  Fair:   Bottom layer   Thickest layer	    0.00  0.25
Rosewood	   4 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	  0.02  0.25
Deerwood	   2 	  Poor:   Bottom layer	į	  Not rated	   
		Thickest layer	0.00		
Mavie	   2 	  Fair:   Bottom layer   Thickest layer		  Fair:   Bottom layer   Thickest layer	  0.00  0.61
Strathcona	   2   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	  0.00  0.25
I5A: Borup	     75 	    Poor:   Bottom layer	0.00	    Poor:   Bottom layer	0.00
Glyndon	     9	Thickest layer    Poor:	0.00   	Thickest layer    Poor:	0.00   
	   	Bottom layer   Thickest layer	0.00  0.00	Bottom layer   Thickest layer 	0.00
Rosewood	   8   	Poor:   Bottom layer   Thickest layer	  0.00  0.00	  Fair:   Thickest layer   Bottom layer	0.02
Augsburg	   5   	  Poor:   Bottom layer   Thickest layer		  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Augsburg, depressional	     3 	  Poor:   Bottom layer   Thickest layer	    0.00  0.00	<u> </u>	    0.00  0.00

Table 21a.--Construction Materials--Continued

component name	Pct.   Potential as source   of   of gravel     map			Potential as sou of sand	ırce
	unit		l Value	Rating class	Value
I7A: Bowstring	   45 	  Poor:   Bottom layer   Thickest layer	    0.00  0.00	!	
Fluvaquents	     45	  Poor:	į į	  Fair:	
	   	Bottom layer   Thickest layer 		Thickest layer   Bottom layer 	0.00
Hapludolls	   5   	   Poor:   Bottom layer   Thickest layer	0.00	   Poor:   Bottom layer   Thickest layer	0.00
Water	   5 	  Not rated 		  Not rated 	
I8A: Cathro	   80 	  Poor:   Bottom layer   Thickest layer		:	
Hamre	   8   	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Northwood	   3 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	0.00
Roliss	   3 	  Poor:   Bottom layer   Thickest layer		  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Berner	   2   	  Poor:   Bottom layer   Thickest layer	  0.00  0.00	:	
Kratka	   2   	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	0.00
Seelyeville	:	  Poor:   Bottom layer   Thickest layer 	0.00	  Not rated     	
I9A: Clearwater	   80     	  Poor:   Bottom layer   Thickest layer	:	  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Clearwater, very	     5 	  Poor:   Bottom layer   Thickest layer		  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Reis	   5   	  Poor:   Bottom layer   Thickest layer		  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Clearwater, depressional	     3   	  -  Poor:   Bottom layer   Thickest layer 	    0.00  0.00	:	    0.00  0.00

Table 21a.--Construction Materials--Continued

component name	Pct.   Potential as source   of   of gravel   map		Potential as source of sand		
	unit 	'	Value	Rating class	Value
	ļ		ļ		
I9A: Espelie	   3 		0.00	  Fair:   Bottom layer   Thickest layer	  0.00  0.13
Foxlake	   2   		0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Hattie	   1   		0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Huot	   1   		0.00	  Poor:   Bottom layer   Thickest layer 	  0.00  0.00
I11A: Deerwood	   85   	  Poor:   Bottom layer   Thickest layer	0.00	•	       
Rosewood	   6   		0.00	  Fair:   Thickest layer   Bottom layer	  0.02  0.25
Markey	   3   	  Poor:   Bottom layer   Thickest layer	0.00	•	
Strathcona	   2   		0.00	  Fair:   Bottom layer   Thickest layer	0.00
Syrene	   2 			  Fair:   Bottom layer   Thickest layer	  0.22  0.22
Venlo	   2   		0.00	  Fair:   Thickest layer   Bottom layer	  0.00  0.25
I12A: Eckvoll	     70   	Bottom layer	0.00	  Fair:   Bottom layer   Thickest layer	    0.00  0.25
Kratka	   8   	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Smiley	   7   	:	0.00	  Poor:   Bottom layer   Thickest layer	0.00
Linveldt	   5   	:	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Reiner	   5   	:	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00

Table 21a.--Construction Materials--Continued

	  Pct.   of	'	   Potential as source   of sand		
=	map	_		01 54114	
	unit			<u> </u>	
	<u> </u>	Rating class	Value	Rating class	Value
I12A:	 	 		 	-
Foldahl	2	Poor:	i	  Fair:	i
	į	Bottom layer	0.00	Bottom layer	0.00
	ļ	Thickest layer	0.00	Thickest layer	0.25
Pelan	   2	  Poor:	l i	  Fair:	-
101411	:	Bottom layer			0.00
	į	_	_	Thickest layer	
Donnloton	1	Doome		  Fair:	
Poppleton	:	Bottom layer		!	0.25
	<u> </u>	_	_	Thickest layer	
	ļ		ļ	ļ	ļ
I13A: Espelie	   75	  Poor:	l I	  Fair:	l I
25,0220		•		Bottom layer	0.00
	į			Thickest layer	0.13
Foxlake	 Ι Ω	  Poor:		  Poor:	-
roatake	İ	•		Bottom layer	10.00
	į			Thickest layer	0.00
Hilaire	7	  Poor:		  Fair:	
niiaire	' 		•	Bottom layer	0.00
İ	i		1	Thickest layer	0.25
			ļ		ļ
Clearwater, depressional	l I 5	  Poor:		  Poor:	-
	į			Bottom layer	0.00
	ļ	Thickest layer	0.00	Thickest layer	0.00
Thiefriver	   5	  Poor:	 	  Fair:	-
	i	!	:	Bottom layer	0.00
	ĺ	Thickest layer	0.00	Thickest layer	0.01
I15A:	 	 	l I	 	
Flaming	70	Poor:	i	  Fair:	i
		<u> </u>	:	Thickest layer	0.02
	 	Thickest layer	0.00	Bottom layer	0.25
Garborg	1 10	Poor:		  Fair:	i
		Bottom layer	0.00	Thickest layer	0.02
	 	Thickest layer	0.00	Bottom layer	0.25
Hamar	   5	Poor:		  Fair:	i
	ĺ	Bottom layer	0.00	Bottom layer	0.25
		Thickest layer	0.00	Thickest layer	0.25
Ulen	l   5	Poor:	i	  Fair:	i
	į	Bottom layer	0.00	Thickest layer	0.05
		Thickest layer	0.00	Bottom layer	0.25
Poppleton	   3	  Poor:	 	  Fair:	
	į			Bottom layer	0.25
	ļ			Thickest layer	0.25
Sandberg	 	Poor		  Fair:	
parianer 3	l 3	Bottom layer			0.07
				IIIICKESC Tayer	10.07

Table 21a.--Construction Materials--Continued

	Pct. of map	of   of gravel		Potential as source of sand	
	unit			! 	
	İ	Rating class	Value	Rating class	Value
I15A:	 				
Foldahl	   2 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	0.00
Radium	   2   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	    0.72  0.79
I16F:	l I	 	l	 	-
Fluvaquents	:	Bottom layer	0.00	Fair:   Thickest layer   Bottom layer	0.00
Hapludolls	:	Bottom layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Hapludalfs	:	·	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Fairdale	:	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Water	   5	  Not rated 		  Not rated 	
Bowstring	   2   	  Poor:   Bottom layer   Thickest layer	0.00	:	
Rauville	   1   	  Poor:   Bottom layer   Thickest layer 	0.00	  Fair:   Thickest layer   Bottom layer 	  0.00  0.01
I17A: Foldahl	75   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	    0.00  0.25
Kratka	   10   	Bottom layer		  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Roliss	   5   	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Flaming	   4   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	  0.02  0.25
Grimstad	   2 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	  0.00  0.05
Linveldt	   2   	  Poor:   Bottom layer   Thickest layer 	0.00	  Poor:   Bottom layer   Thickest layer 	  0.00  0.00

Table 21a.--Construction Materials--Continued

Map symbol and component name	of	Pct.  Potential as source     of   of gravel    map		Potential as source   of sand 	
	unit	İ		<u> </u>	
	<u> </u>	Rating class	Value	Rating class	Value
I17A:		 	İ	 	l I
Eckvoll				Fair:	İ
	!	Bottom layer			
		Thickest layer 	0.00	Thickest layer 	0.25 
Strathcona	1	Poor:	i	  Fair:	i
	İ			Bottom layer	
		Thickest layer	0.00	Thickest layer	0.25
I18A:	i		i	 	
Foldahl	75	Poor:	•	Fair:	İ
	!			Bottom layer	
		Thickest layer	0.00	Thickest layer	0.25
Kratka	10	Poor:	i	Poor:	i
				Bottom layer	
		Thickest layer	0.00	Thickest layer	0.00
Roliss	5	  Poor:	-	  Poor:	
	į	Bottom layer			
		Thickest layer	0.00	Thickest layer	0.00
Flaming	   4	  Poor:	-	  Fair:	
S		Bottom layer			0.02
	į	Thickest layer	0.00	Bottom layer	0.25
Grimstad		Poor	-	  Fair:	
GI IIIIS CAQ		Bottom layer	•	•	0.00
	į			Thickest layer	
Linveldt	2	  Poor:		  Poor:	l
HINVELUC		Bottom layer	•	•	0.00
	į			Thickest layer	
Eckvoll	   1	  Poor:		  Fair:	l I
		Bottom layer		•	0.00
	į	Thickest layer	0.00	Thickest layer	0.25
Strathcona	1	  Poor:		  Fair:	l
20140114	i -	1		Bottom layer	0.00
	į	Thickest layer	0.00	Thickest layer	0.25
I19A:		 		 	l I
Foxhome	65			  Fair:	i
		Bottom layer		Bottom layer	
		Thickest layer	0.00	Thickest layer	0.03
Kittson	1 10	  Poor:	İ	  Poor:	İ
	į	Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Strandquist	1 10	  Fair:	-	  Fair:	ļ
_	į	Bottom layer	0.00	Bottom layer	0.00
	!	Thickest layer	0.12	Thickest layer	0.68
Foldahl	   5	  Poor:	I	  Fair:	l I
		•		Bottom layer	0.00
	į	Thickest layer		Thickest layer	0.25
Grimstad		Poort	ļ	  Fair:	
GT THIS CAU	1 2			Fair:   Bottom layer	0.00
	i	Thickest layer		Thickest layer	0.05
	ĺ	Ī	j	·	İ

Table 21a.--Construction Materials--Continued

	Pct.	of gravel	Potential as source of sand		
	map	:			
	unit 	   Rating class	Value	Rating class	Value
		l	ĺ	Ī	Ī
I19A:					ļ
Roliss	3 	Poor:   Bottom layer		Poor:   Bottom layer	0.00
	! !	Thickest layer	0.00	·	0.00
Mavie	   2	  Fair:		  Fair:	-
navic	i -	Bottom layer		Bottom layer	0.00
	į	Thickest layer	0.12	Thickest layer	0.61
120A:	 	 		 	
Foxlake	75	Poor:		Poor:	-
	ļ	Bottom layer		Bottom layer	0.00
	 	Thickest layer 	0.00	Thickest layer 	0.00
Clearwater	5	Poor:		Poor:	-
	ļ	Bottom layer		Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Foxlake, very cobbly	5	Poor:	i	Poor:	i
		Bottom layer		Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00
Augsburg	3	Poor:	į	Poor:	i
Į.	ļ	Bottom layer	:	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Clearwater,	į	į	į	į	į
depressional	3	Poor:		Poor:	
	 	Bottom layer   Thickest layer	:	Bottom layer   Thickest layer	0.00
Espelie	3	  Poor:		  Fair:	
reberre	]	Bottom layer		Bottom layer	0.00
	į	Thickest layer	:	Thickest layer	0.13
Hilaire	   2	  Poor:		  Fair:	l
	ĺ	Bottom layer	0.00	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.25
Reis	2	Poor:	i	Poor:	i
	ļ	Bottom layer		Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Wheatville	2	Poor:		Poor:	İ
	ļ	Bottom layer	0.00		0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
I22A:		   Dooms		   Dooms	
Glyndon	75 	Poor:   Bottom layer	  0.00	Poor:   Bottom layer	0.00
	i	Thickest layer	0.00	:	0.00
Borup	   10	  Poor:		Poor:	
<u></u>		Bottom layer	0.00	!	0.00
	į	Thickest layer	0.00	:	0.00
Augsburg	l   5	  Poor:		  Poor:	l
	į	Bottom layer	0.00	!	0.00
	i .	Thickest layer	0.00	Thickest layer	0.00

Table 21a.--Construction Materials--Continued

	of	!	urce	Potential as sou of sand	ırce
	map  unit	!		 	
		'	Value	Rating class	Value
I22A:	 	 		 	
Ulen	5			  Fair:	i
	ĺ			Thickest layer	0.05
	 	Thickest layer	0.00	Bottom layer	0.25
Wheatville	3	Poor:	i	Poor:	
		Bottom layer			
	 	Thickest layer 	0.00	Thickest layer 	0.00
Flaming	2	Poor:	i	  Fair:	i
		Bottom layer			
	 	Thickest layer 	0.00	Bottom layer	0.25
I24A:	i	İ	i		i
Grimstad	:		•	Fair:	
	 			Bottom layer Thickest layer	
	i	Inickest layer		Inickest layer	
Strathcona		•		Fair:	ļ
		Bottom layer		Bottom layer   Thickest layer	
	 	Inickest layer	10.00	Thickest layer	0.25
Foldahl		Poor:		Fair:	İ
		Bottom layer			
	 	Thickest layer 	0.00 	Thickest layer 	0.25 
Hamerly	5	Poor:	i	Poor:	i
	ļ	Bottom layer			
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Foxhome	2	Poor:	i	  Fair:	i
	ļ	Bottom layer			
	 	Thickest layer 	0.00 	Thickest layer 	0.03 
Karlsruhe		Poor:		  Fair:	i
		Thickest layer	0.00	Thickest layer	0.07
	 	Bottom layer 	0.00 	Bottom layer	0.54 
Mavie	2	Fair:	i	Fair:	i
	ļ			Bottom layer	
	 	Thickest layer 	0.12 	Thickest layer 	10.61
Ulen	2	Poor:	i	Fair:	i
				Thickest layer	
	 	Thickest layer 	0.00 	Bottom layer	0.25 
I25A:	i	İ	į	İ	i
Hamar	75	•		Fair:	
	 		_	Bottom layer Thickest layer	0.25
	İ				
Garborg	10	!	:	Fair:	
		:		Thickest layer   Bottom layer	0.02
		Inickest layer	1	Boccom Tayer	0.23
Rosewood	7	!		Fair:	ļ
		:		Thickest layer	0.02
		Thickest layer 	0.00 	Bottom layer 	0.25 
Venlo	3	Poor:	i	  Fair:	i
		:	:	Thickest layer	0.00
	1	Thickest layer	10.00	Bottom layer	0.25

Table 21a.--Construction Materials--Continued

	Pct.  Potential as so   of   of gravel  map		ource	   Potential as sou   of sand 		
	unit	'	1	<u> </u>	1	
		Rating class	Value	Rating class	Value	
I25A:	i	İ	i	İ	i	
Flaming	2	Poor:		Fair:		
		Bottom layer   Thickest layer		Thickest layer Bottom layer	0.02	
	i	Inickest layer		Boccom Tayer		
Hangaard	2	Poor:		Fair:	İ	
	ļ	:		Thickest layer	0.04	
	 	Thickest layer 	0.00	Bottom layer	0.51 	
Kratka	1	Poor:	i	Poor:	i	
	İ	Bottom layer	0.00	Bottom layer	0.00	
		Thickest layer	0.00	Thickest layer	0.00	
126A:	 	 	l I	 		
Hamerly	75	Poor:	i	Poor:	i	
				Bottom layer	0.00	
		Thickest layer	0.00	Thickest layer	0.00	
Vallers	   12	  Poor:		  Poor:	-	
	:			Bottom layer	0.00	
	ĺ	Thickest layer	0.00	Thickest layer	0.00	
Wasshama.		   Page	ļ	   Tadas	-	
Foxhome	:	Poor:   Bottom layer		Fair:   Bottom layer	0.00	
	i			Thickest layer		
	ļ	!	ļ	!	İ	
Grimstad    	:	Poor:   Bottom layer		Fair:   Bottom layer	  0.00	
	ľ	•		Thickest layer		
	į	į	i	į	i	
Hamerly, very cobbly	:	•	•	Poor:		
		Bottom layer   Thickest layer		Bottom layer Thickest layer	0.00	
	i					
Strathcona	3	Poor:		Fair:	İ	
		Bottom layer		Bottom layer	0.00	
	 	Thickest layer 	0.00 	Thickest layer 	0.25 	
Roliss, depressional	1	Poor:	i	Poor:	i	
		Bottom layer		Bottom layer	0.00	
		Thickest layer	0.00	Thickest layer	0.00	
127A:	 	 		 	-	
Hamre	80			Poor:	i	
	ļ			Bottom layer		
		Thickest layer	0.00	Thickest layer	0.00	
Northwood	l   5	  Poor:	ł	  Fair:	i	
	i	Bottom layer	0.00	Bottom layer	0.00	
	ļ	Thickest layer	0.00	Thickest layer	0.13	
Roliss	   5	  Poor:		  Poor:		
ROTIBB		Bottom layer	:	Bottom layer	0.00	
	i	Thickest layer		Thickest layer	0.00	
g., 13	_	l Parasa	ļ	l Parasa	ļ	
Smiley	5 	Poor:   Bottom layer	:	Poor:   Bottom layer	  0.00	
		Thickest layer		Thickest layer	0.00	
	į	İ	i	İ	i	
Cathro	3	Poor:	:	Not rated	ļ	
	 	Bottom layer Thickest layer	0.00	!	-	
	1	I INTOVER TAYEL	0.00	I	1	

Table 21a.--Construction Materials--Continued

component name	Pct.   Potential as source   of   of gravel  map		urce	Potential as source of sand		
	unit			<u> </u>		
	<u> </u>	Rating class	Value	Rating class	Value	
I27A:			-	 		
Kratka	2	Poor:	i .	Poor:		
	İ		0.00	Bottom layer	0.00	
		Thickest layer	0.00	Thickest layer	0.00	
I32A:	 	! 		 		
Hilaire	:	Poor:		Fair:	ļ	
				Bottom layer Thickest layer		
	i					
Espelie	:	Poor:	•	Fair:		
	 			Bottom layer Thickest layer		
	 	Inickest layer	10.00	INICKESC TAYEL		
Huot		Poor:		Poor:	į	
		Bottom layer				
	 	Thickest layer	10.00	Thickest layer 	10.00	
Flaming	2	Poor:	į	Fair:	İ	
	ļ	Bottom layer				
	 	Thickest layer 	0.00 	Bottom layer	0.25 	
Foxlake	2	Poor:	i	Poor:	i	
	ļ	Bottom layer				
	 	Thickest layer	0.00	Thickest layer	0.00	
Wheatville	2	Poor:	1	Poor:		
		Bottom layer				
	 	Thickest layer	0.00	Thickest layer	0.00	
Thiefriver	1	Poor:	i	  Fair:	i	
	ļ	Bottom layer				
	 	Thickest layer	0.00 	Thickest layer 	0.01	
Wyandotte	1	  Fair:	i	  Fair:	i	
		Bottom layer				
	 	Thickest layer 	0.25 	Thickest layer 	0.10 	
I34A:	İ	İ	i		i	
Huot	75	Poor:	•	Poor:		
	 	•		Bottom layer Thickest layer		
	i					
Thiefriver	12			Fair:		
				Bottom layer Thickest layer		
	i	Inickest layer		Inickest layer		
Hilaire	5	•		Fair:	1	
		•	•	Bottom layer Thickest layer	0.00	
	i	Inickest layer		Inickest layer		
Flaming	3	•	•	Fair:	İ	
				Thickest layer	0.02	
		Thickest layer 		Bottom layer 	0.25	
Foxlake	3	•		Poor:	į	
			_	Bottom layer	0.00	
	 	Thickest layer 	0.00 	Thickest layer 	0.00 	
Ulen	2	Poor:	i	  Fair:	i	
	ļ			Thickest layer Bottom layer	0.05	
					0.25	

Table 21a.--Construction Materials--Continued

	Pct.   Potential as source     of   of gravel     map		Potential as source of sand		
	unit	'			
		Rating class	Value	Rating class	Value
I36A:	 	! 	i	! 	i
Kittson	70	Poor:	İ	Poor:	į
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Roliss	   12	  Poor:		  Poor:	-
	i	•	•	Bottom layer	0.00
	į	Thickest layer	0.00	Thickest layer	0.00
Hamerly	 	  Boore		  Poor:	-
namer ly		!	:	Bottom layer	0.00
	İ	:	:	Thickest layer	
Trans to local					
Kratka		Poor:   Bottom layer	:	Poor:   Bottom layer	0.00
	 	:	:	Thickest layer	0.00
	i				
Grimstad		1		Fair:	
		:	:	Bottom layer	0.00
	 	Thickest layer 	10.00	Thickest layer 	0.05
Strandquist	3	  Fair:	i	  Fair:	i
	į	Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.12	Thickest layer	0.68
Foxhome	   2	  Poor:	l I	  Fair:	l I
į		!	:	Bottom layer	0.00
	į	:	0.00	Thickest layer	0.03
I38A:	 	 	 	 	-
Kratka	70	Poor:	i	Poor:	i
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Smiley	l   7	  Poor:		  Poor:	İ
_	į	Bottom layer	0.00	Bottom layer	0.00
	ļ	Thickest layer	0.00	Thickest layer	0.00
Foldahl	   5	  Poor:	l I	  Fair:	l I
	i			Bottom layer	0.00
	į			Thickest layer	0.25
Kratka, very cobbly	   5	  Poor•		  Poor:	
Riacka, Very Cobbiy		Bottom layer	0.00	:	0.00
	İ	:	0.00	<u> </u>	0.00
Strathcona		  Poor:		  Fair:	
SCI aciicolia	]	Bottom layer	0.00	!	0.00
	į	Thickest layer	0.00	<u> </u>	0.25
***************************************		l Parasa		 	-
Kratka, depressional	3 	Poor:   Bottom layer	10.00	Poor:   Bottom layer	0.00
		Thickest layer	0.00	· -	0.00
	ļ		į	į	İ
Strandquist	3	Fair:	:	Fair:	
		Bottom layer	0.00	<u> </u>	0.00
	! 	Thickest layer 	0.12 	Thickest layer 	0.68 
Linveldt	2	Poor:	İ	Poor:	i
	ļ	Bottom layer	0.00	<u> </u>	0.00
	1	Thickest layer	0.00	Thickest layer	0.00

Table 21a.--Construction Materials--Continued

	of map	-		Potential as sou of sand	ırce
	unit 	   Rating class	Value	Rating class	Value
	ļ		-		ļ
I39A: Linveldt	l l 65	  Poor:	l I	  Poor:	-
		Bottom layer			0.00
		Thickest layer			
Kratka				  Poor:	
		Bottom layer			
	l I	Thickest layer 	0.00 	Thickest layer 	0.00 
Reiner			i		i
		Bottom layer			
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Smiley			į		į
		Bottom layer			
	 	Thickest layer 	10.00	Inickest layer	0.00
Eckvoll					
		Bottom layer   Thickest layer			
	į	į	İ	į	
Foldahl					
		Bottom layer   Thickest layer			
	į	į	į	į	į
Pelan  		!		!	
		Bottom layer   Thickest layer		Thickest layer	
T413.			ļ		
I41A: Markey	80	Poor:	i	  Not rated	
		Bottom layer			Ì
		Thickest layer	0.00	 	
Deerwood	12	Poor:	i	Not rated	i
	ļ	Bottom layer			ļ
	l I	Thickest layer	0.00 	 	
Berner	2	Poor:	i	Not rated	i
		Bottom layer			ļ
	 	Thickest layer	10.00	 	
Hamar	2	Poor:		Fair:	į
		Bottom layer   Thickest layer	•	Bottom layer   Thickest layer	0.25
		Inickest layer		Inickest layer	
Seelyeville	2	Poor:		Not rated	ļ
		Bottom layer   Thickest layer	0.00  0.00		ļ
		Inickest layer		! 	
Syrene	2	Poor:		Fair:	1
		Bottom layer   Thickest layer	0.00  0.00	Bottom layer   Thickest layer	0.22
	i	Interest layer		Inickest layer	
I42A:		  Poome		  Not mated	
Markey, ponded	85 	Poor:   Bottom layer	  0.00	Not rated 	l I
	į	Thickest layer	0.00		i
	ļ		ļ		ļ
Markey	5 	Poor:   Bottom layer	:	Not rated	
		Bottom layer   Thickest layer	0.00		
	i	i	1	i	i

Table 21a.--Construction Materials--Continued

	Pct. of	: :		Potential as sou of sand	irce
	map	:			
	unit 	'	Value	Rating class	Value
	ļ	ļ	ļ	ļ	İ
I42A: Deerwood		  Boore		  Not rated	-
Deel wood	:	Bottom layer	0.00	!	i
	į	Thickest layer	0.00	į	į
Seelyeville, ponded	   4	  Poor:	l	  Not rated	
beer, eville, ponded	:	Bottom layer	0.00		i
	į	Thickest layer	0.00	į	į
Hamar	   1	  Poor:		  Fair:	l I
	İ	Bottom layer	0.00	Bottom layer	0.25
		Thickest layer	0.00	Thickest layer	0.25
Hangaard	1	Poor:		  Fair:	-
		Bottom layer		Thickest layer	0.04
	 	Thickest layer 	0.00 	Bottom layer 	0.51 
143A:	į	<u> </u>	į	<u> </u>	į
Mavie	70 	Fair:   Bottom layer		Fair:   Bottom layer	  0.00
		Thickest layer		Thickest layer	0.61
Vallers	   10	  Poor•		Poor:	
Validid	-0	•		Bottom layer	0.00
	į	Thickest layer	0.00	Thickest layer	0.00
Strandquist	   7	  Fair:		  Fair:	
	ļ	<u> </u>	:	Bottom layer	0.00
	 	Thickest layer 	0.12 	Thickest layer 	0.68 
Strathcona	5	Poor:		Fair:	į
		Bottom layer		Bottom layer	0.00
	 	Thickest layer 		Thickest layer 	0.25 
Strathcona, depressional		  Poor:	1	  Fair:	ļ
depressionar	]	Bottom layer	!	Bottom layer	0.00
	į	Thickest layer		Thickest layer	0.25
Foxhome	   2	  Poor:		  Fair:	l I
	ĺ	Bottom layer		Bottom layer	0.00
	 	Thickest layer	0.00	Thickest layer	0.03
Karlsruhe	2	Poor:	i	  Fair:	i
	ļ	Thickest layer	0.00	!	0.07
	 	Bottom layer 	10.00	Bottom layer 	0.54
Grimstad	1	Poor:		Fair:	į
		Bottom layer	0.00	<u> </u>	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.05 
I44A: Newfolden	   75	  Poor:		  Poor:	 
110MTOTGGII	'3	Bottom layer	0.00	!	0.00
	į	Thickest layer	0.00	:	0.00
Smiley	   12	  Poor:	 	  Poor:	l I
•	i -	Bottom layer	0.00	!	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 21a.--Construction Materials--Continued

Map symbol and component name	Pct.   Potential as source     of   of gravel		Potential as source of sand		
	map	:		<u> </u>	
	unit 		Value	Rating class	Value
	ļ	!	ļ	!	ļ
I44A: Boash	   8	  Poor•	l i	  Poor:	-
Doasii	:			Bottom layer	10.00
	į		_	Thickest layer	
Linveldt	4	  Poor:	 	  Poor:	l I
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00 	Thickest layer	0.00
Hapludolls				Poor:	į
		Bottom layer			
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
I45A: Northwood		Poor		  Fair:	
NOI CIIWOOQ	:	•		Bottom layer	10.00
	į			Thickest layer	
Hamre	   10	  Poor:	 	  Poor:	
	İ			Bottom layer	0.00
		Thickest layer	0.00 	Thickest layer	0.00
Berner	5	Poor:		  Not rated	İ
	ļ	Bottom layer			
		Thickest layer 		 	
Kratka		•		•	
		Bottom layer   Thickest layer		Bottom layer   Thickest layer	
Ctmandaviat		 	İ	 	Ì
Strandquist		Bottom layer	•	Fair:   Bottom laver	0.00
	į			Thickest layer	
Roliss	   2	  Poor:		  Poor:	
	İ	Bottom layer			0.00
		Thickest layer	0.00 	Thickest layer	0.00 
I46A:	į	_	į	_	į
Pits	85 	Not rated 		Not rated 	
Udipsamments	10		•	Fair:	į.
		Bottom layer   Thickest layer	0.00	Bottom layer   Thickest layer	0.51 0.79
	i	Inickest layer		Interest layer	
Radium	2	Poor:	:	Fair:	
		:	:	Thickest layer   Bottom layer	0.72
	i	Inickest layer		Boccom rayer	
Maddock	1	Poor:	:	Fair:	
	l I	:	:	Thickest layer   Bottom layer	0.02
	į	į	į	į	
Marquette	1	Poor:	•	Fair:	
		Thickest layer   Bottom layer	0.00	:	0.00
	į	į	į	į	
Sandberg	1	Poor:	:	Fair:	
	1	Bottom layer   Thickest layer	:	Thickest layer   Bottom layer	0.07  0.51
		Interest tayer	1	Doccom rayer	

Table 21a.--Construction Materials--Continued

Map symbol and component name	Pct. of map	of gravel	   Potential as sou   of sand 	ırce	
	unit	:		<u> </u>	
	<u> </u>	Rating class	Value	Rating class	Value
I47A:		 	l I	 	ļ
Poppleton	   75   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	  0.25  0.25
Flaming	   12   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	    0.02  0.25
Garborg	   5   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	    0.02  0.25
Hamar	:	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	    0.25  0.25
Radium	   2 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	    0.72  0.79
Ulen	   2 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	    0.05  0.25
Maddock	   1 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	  0.02  0.25
148A:	 	 		 	-
Radium	   75   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	  0.72  0.79
Sandberg	   7 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	    0.07  0.51
Oylen	   5   	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	  0.58  0.72
Flaming	   4 	  Poor:   Bottom layer   Thickest layer	    0.00  0.00	!	  0.02  0.25
Garborg	   3 	  Poor:   Bottom layer   Thickest layer	    0.00  0.00	!	  0.02  0.25
Hangaard	   3 	  Poor:   Bottom layer   Thickest layer		  Fair:   Thickest layer   Bottom layer	  0.04  0.51
Hamar	   2 	  Poor:   Bottom layer   Thickest layer	    0.00  0.00	<u> </u>	  0.25  0.25
Poppleton	   1   	  Poor:   Bottom layer   Thickest layer 	  0.00  0.00	<u> </u>	  0.25  0.25

Table 21a.--Construction Materials--Continued

component name	Pct.   Potential as source   of   of gravel   map		Potential as source of sand		
	map  unit			 	
			Value	Rating class	Value
	ļ		ļ		ļ
I50A: Reiner	   70	  Boore		  Poor:	
Keinei	, , o	•		Bottom layer	0.00
	İ	:	:	Thickest layer	0.00
amil and		   Daama		  Poor:	ļ
Smiley	12 	Bottom layer			0.00
	İ	:	:	Thickest layer	0.00
Reiner, very cobbly	   7	  Poor•		  Poor:	ļ
Reiner, Very Cobbiy	' 	Bottom layer		'	0.00
	i	:	:	Thickest layer	0.00
-1 -2.	_		ļ		ļ
Linveldt	5 	Poor:   Bottom layer		Poor:	  0.00
	! 	:	:	Thickest layer	0.00
	į	İ	į	·	į
Eckvoll	3	Poor:		Fair:	
	 	Bottom layer	:	Bottom Layer   Thickest layer	0.00
	i				
Kratka	3	Poor:	İ	Poor:	İ
		•		Bottom layer	0.00
	l I	Thickest layer 	10.00	Thickest layer 	0.00 
I51A:	İ	İ	i		i
Reiner	65	Poor:	:	Poor:	
	 	Bottom Layer   Thickest layer		Bottom layer   Thickest layer	0.00
	<u> </u>				
Smiley	9	Poor:	:	Poor:	İ
	 	Bottom layer   Thickest layer		Bottom layer   Thickest layer	0.00
	 	Inickest layer		INICKESC TAYEL	1
Reiner fine sandy	į	İ	į		į
loam	8	Poor:	:	Poor:	
	l I	Bottom layer Thickest layer	:	Bottom layer   Thickest layer	0.00
	į				i
Linveldt	7	Poor:	:	Poor:	
	 	Bottom layer   Thickest layer		Bottom layer   Thickest layer	0.00
	 	Inickest layer		INICKESC TAYEL	1
Kratka	5	Poor:	į	Poor:	į
		Bottom layer		Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00
Eckvoll	3	Poor:	i	  Fair:	i
		Bottom layer		Bottom layer	0.00
	 	Thickest layer	0.00	Thickest layer	0.25
Reiner, very cobbly	   3	Poor:		Poor:	
	İ	Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
I52A:	 	 		[ [	-
Reis	55	Poor:	i	Poor:	i
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer		Thickest layer	0.00

Table 21a.--Construction Materials--Continued

	of map	Pct.   Potential as source   of   of gravel   map		Potential as source of sand	
	unit	   Rating class	Value	Rating class	Value
		Racing Class	vaiue	Racing Class	varue
I52A: Clearwater	   30 	  Poor:   Bottom layer   Thickest layer	:		    0.00  0.00
Clearwater, very	     5	    Poor:   Bottom layer		    Poor:   Bottom layer	      0.00
	į	Thickest layer	0.00		0.00
Clearwater, depressional	     3	    Poor:   Bottom layer	:	    Poor:   Bottom layer	      0.00
	į	Thickest layer		Thickest layer	0.00
Espelie	   3 	•	0.00	  Fair:   Bottom layer	0.00
	 	Thickest layer 	0.00	Thickest layer 	0.13
Hattie	3   	Poor:   Bottom layer   Thickest layer	0.00	Poor:   Bottom layer   Thickest layer	  0.00  0.00
Wyandotte	   1   	  Fair:   Bottom layer   Thickest layer	0.00	  Fair:   Bottom layer   Thickest layer	0.00
I53A: Roliss	     75   	  Poor:   Bottom layer   Thickest layer		  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Kratka	   8   	  Poor:   Bottom layer   Thickest layer		  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Roliss, very cobbly	   7   	  Poor:   Bottom layer   Thickest layer		  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Kittson	   5 	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Roliss, depressional	   3 	  Poor:   Bottom layer   Thickest layer		  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Smiley	   2   	  Poor:   Bottom layer   Thickest layer 	0.00	  Poor:   Bottom layer   Thickest layer 	  0.00  0.00
I54A: Roliss, depressional	     80 	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Roliss	   12     	  Poor:   Bottom layer   Thickest layer 	:	  Poor:   Bottom layer   Thickest layer 	  0.00  0.00

Table 21a.--Construction Materials--Continued

Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer		Rating class     Poor:   Bottom layer     Thickest layer     Poor:   Bottom layer     Thickest layer     Thickest layer     Fair:   Thickest layer     Bottom layer     Fair:   Bottom layer     Fair:   Bottom layer     Fair:   Bottom layer     Fair:   Bottom layer     Fair:   Bottom layer     Fair:   Bottom layer     Fair:   Bottom layer     Bottom layer     Bottom layer     Bottom layer     Bottom layer	Value
Poor: Bottom layer Thickest layer  layer   Point layer   P			
Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer		Poor:   Bottom layer   Thickest layer   Poor:   Bottom layer   Thickest layer   Thickest layer   Point layer   P	
Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer	0.00   0.00   1   0.00   0.00   1   0.00   0.00   1   0.00   0.00   1   0.00   0.00	Bottom layer Thickest layer Bottom layer Bottom layer Thickest layer  Fair: Thickest layer Bottom layer Fair: Thickest layer Bottom layer  Fair: Bottom layer  Fair: Thickest layer Bottom layer  Thickest layer Bottom layer  Thickest layer Bottom layer	0.00     0.00   0.00     0.02   0.25     0.05   0.25   0.25   0.25
Bottom layer Thickest layer  Poor:	0.00     0.00   0.00     0.02   0.25     0.05   0.25   0.25   0.25		
Bottom layer Thickest layer  Poor:	0.00     0.00   0.00     0.02   0.25     0.05   0.25   0.25   0.25		
Poor: Bottom layer Thickest layer			
Bottom layer Thickest layer  Poor:	0.00     0.02   0.25   0.25   0.25   0.25		
Poor: Bottom layer Thickest layer	0.00     0.02   0.25   0.25   0.25   0.25		
Poor: Bottom layer Thickest layer  Thickest layer   T	   0.02   0.25   0.05   0.25   0.25   0.25		
Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer	0.00   0.00   1   0.00   0.00   0.00   1   0.00   0.00   0.00	Thickest layer Bottom layer Fair: Thickest layer Bottom layer Fair: Bottom layer Thickest layer   Fair:   Thickest layer   Fair:   Thickest layer   Bottom layer	0.25     0.05   0.25     0.25   0.25
Bottom layer Thickest layer  Poor:	0.25     0.05   0.25     0.25   0.25		
Thickest layer  Poor: Bottom layer	0.25     0.05   0.25     0.25   0.25		
Poor: Bottom layer Thickest layer	  0.05  0.25      0.25        0.25		
Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Bottom layer	0.00   0.00 	Thickest layer Bottom layer Fair: Bottom layer Thickest layer Fair: Thickest layer Bottom layer	0.25    0.25  0.25     
Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer Bottom layer	0.00     0.00   0.00     1   0.00   0.00	Bottom layer 	0.25    0.25  0.25     
Poor: Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer	  0.00  0.00        0.00  0.00	Fair:   Bottom layer   Thickest layer   	  0.25  0.25       
Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer	0.00  0.00        0.00  0.00	Bottom layer Thickest layer         Fair: Thickest layer   Bottom layer    Fair:	0.25
Thickest layer  Poor: Bottom layer Thickest layer  Poor: Bottom layer	0.00        0.00  0.00	Thickest layer     Fair:   Thickest layer   Bottom layer	0.25
Poor: Bottom layer Thickest layer Poor: Bottom layer	    0.00  0.00	  Fair:   Thickest layer   Bottom layer    Fair:	      0.02
Bottom layer Thickest layer Poor: Bottom layer	0.00  0.00 	Thickest layer Bottom layer  Fair:	:
Bottom layer Thickest layer Poor: Bottom layer	0.00  0.00 	Thickest layer Bottom layer  Fair:	:
Thickest layer  Poor: Bottom layer	0.00   	Bottom layer    Fair:	:
Poor: Bottom layer	j I	  Fair:	0.25
Bottom layer			Ì
_	0.00	Bottom layer	_
	1	i	0.22
Thickest layer	0.00 	Thickest layer 	0.22
Poor:		Fair:	İ
Thickest layer	:	Thickest layer	0.07
Bottom layer	0.00 	Bottom layer 	0.54
Poor:		Fair:	į
Bottom layer	:	Bottom layer	0.00
Thickest layer	0.00 	Thickest layer 	0.25 
Poor:		Fair:	İ
Bottom layer	:	Bottom layer	0.00
Thickest layer	0.00 	Thickest layer 	0.01
<b>D</b>	į	i 	į
Poor:	!	Fair:	0.07
_	:	<u> </u>	0.51
Poor •		  Fair:	
	!	!	0.72
Thickest layer		•	0.79
Poor:	 	  Fair:	 
Thickest layer	!	!	0.03
Bottom layer		•	0.64
		  Fair:	
Poor:		!	0.58
Poor: Bottom layer	0.00	BOLLOM Tayer	0.72
	Bottom layer Thickest layer  Poor: Bottom layer Thickest layer  Poor: Thickest layer	Bottom layer   0.00 Thickest layer   0.00    Poor:   Bottom layer   0.00 Thickest layer   0.00    Poor:   Thickest layer   0.00 Bottom layer   0.00    Poor:   Thickest layer   0.00    Bottom layer   0.00    Poor:	Bottom layer   0.00   Thickest layer Thickest layer   0.00   Bottom layer    Poor:   Fair:    Bottom layer   0.00   Thickest layer    Thickest layer   0.00   Bottom layer    Poor:   Fair:    Thickest layer   0.00   Thickest layer    Bottom layer   0.00   Bottom layer    Poor:   Fair:    Foor:   Fair:

Table 21a.--Construction Materials--Continued

component name	Pct.   Potential as source   of   of gravel   map		   Potential as source   of sand 		
	unit	'	lvalue	Rating class	Value
		Racing class		Recing class	
I57B: Flaming	   5 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer	0.02
		Inickest layer	1	Bottom layer 	0.25
Garborg	5   5 	Poor:   Bottom layer   Thickest layer	0.00	   Thickest layer   Bottom layer	0.02
I58A:	 	! 	i .	! 	i
Seelyeville	90   	Poor:   Bottom layer   Thickest layer	0.00	  Not rated   	 
Cathro	   3   	  Poor:   Bottom layer   Thickest layer	  0.00  0.00	  Not rated   	   
Dora	3 	  Poor:   Bottom layer   Thickest layer	    0.00  0.00	  Not rated 	 
Markey	     3	  Poor:   Bottom layer	0.00	  Not rated 	
	l I	Thickest layer 	0.00 	 	
Berner	   1 	Poor:   Bottom layer   Thickest layer	0.00	  Not rated   	
159A:	 	 		 	-
Smiley	65   	Poor:   Bottom layer   Thickest layer	0.00	Poor:   Bottom layer   Thickest layer	0.00
Smiley, very cobbly	   10   	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Kratka	   9 	  Poor:   Bottom layer	0.00	  Poor:   Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Roliss	   5   	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	0.00
Reiner	   4 	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Linveldt	   3 	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Smiley, depressional	   3 	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Strandquist	   1   	  Fair:   Bottom layer   Thickest layer 	0.00	  Fair:   Bottom layer   Thickest layer 	  0.00  0.68 

Table 21a.--Construction Materials--Continued

	Pct. of map	!	ource	   Potential as sou   of sand 	ırce
	unit				
	<u> </u>	Rating class	Value	Rating class	Value
I60A:	 	 	ļ	 	
Smiley, depressional	80	Poor:	i	Poor:	i
		Bottom layer	0.00	Bottom layer	0.00
	 	Thickest layer	0.00	Thickest layer	0.00
Smiley	10	Poor:	i	Poor:	
		Bottom layer			
		Thickest layer	0.00	Thickest layer	0.00
Hamre	5	Poor:	i .	Poor:	1
	İ	Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Kratka	5	Poor:	i .	Poor:	i
	İ	Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
I61A:		 	i	 	i
Strandquist	•	•	İ	•	į
	ļ	Bottom layer		Bottom layer Thickest layer	
	 	Thickest layer	10.12	Thickest layer 	10.68
Mavie	8	Fair:	i	Fair:	i
	ļ	Bottom layer			
	l I	Thickest layer	0.12 	Thickest layer 	0.61 
Roliss	7	Poor:	i	Poor:	i
	ļ	Bottom layer			
	l I	Thickest layer	0.00 	Thickest layer 	10.00
Kratka	5	Poor:	i	Poor:	i
	ļ	Bottom layer			
	l I	Thickest layer 	0.00 	Thickest layer 	10.00
Foxhome		Poor:		  Fair:	i
	ļ	Bottom layer			
	 	Thickest layer	0.00 	Thickest layer 	0.03
Hangaard	3	Poor:		Fair:	į
	!			Thickest layer	0.04
	 	Thickest layer	0.00	Bottom layer 	10.51
Northwood	3	Poor:	i	Fair:	i
	ļ	Bottom layer		Bottom layer	0.00
	l I	Thickest layer 	0.00 	Thickest layer 	0.13
I62A:	İ	j	i		i
Syrene	70	•		Fair:	
	l I	Bottom layer   Thickest layer		Bottom layer Thickest layer	0.22
	İ				
Rosewood	11		•	Fair:	
	 	Bottom layer   Thickest layer	•	Thickest layer Bottom layer	0.02
	İ				
Hangaard	5		:	Fair:	
	 	Bottom layer   Thickest layer		Thickest layer	0.04
		Interest layer		Bottom layer 	0.51 
Karlsruhe	4	Poor:	•	Fair:	į
		:		:	0.07
	!	Bottom layer	10.00	Bottom layer	0.54

Table 21a.--Construction Materials--Continued

component name	of		urce	   Potential as source   of sand		
	map  unit	:		 		
		'	Value	Rating class	Value	
	ļ	ļ	ļ	ļ	ļ	
I62A: Deerwood	   3	  Poor:	-	  Not rated	ļ	
Deel wood		Bottom layer	0.00	!	i	
	į	Thickest layer	0.00	:	i	
Homen		  Poor:		  Enima	ļ	
Hamar	3	Bottom layer	•	Fair:   Bottom layer	0.25	
	<u> </u>	Thickest layer		Thickest layer	0.25	
0+			-		ļ	
Strandquist	<u> </u>	Fair:   Bottom layer	•	Fair:   Bottom layer	  0.00	
	! 	Thickest layer		Thickest layer	0.68	
		ĺ	İ		İ	
Radium	1	Poor:	•	Fair:		
	l I	Bottom layer   Thickest layer		Thickest layer Bottom layer	0.72  0.79	
	İ					
Wyandotte	1	Fair:	•	Fair:	ļ	
		Bottom layer		Bottom layer	0.00	
	 	Thickest layer 	0.25	Thickest layer 	0.10 	
I63A:	İ	İ	i	İ	i	
Thiefriver	70	Poor:		Fair:		
			•	Bottom layer   Thickest layer	0.00  0.01	
	 	Inickest layer	1	Inickest layer	10.01	
Espelie	10	Poor:	į	Fair:	İ	
		! -		Bottom layer	0.00	
	 	Thickest layer 	0.00	Thickest layer 	0.13 	
Foxlake	7	Poor:	i	Poor:	i	
		Bottom layer	0.00	Bottom layer	0.00	
		Thickest layer	0.00	Thickest layer	0.00	
Huot	   5	Poor:	1	Poor:	i .	
	İ	Bottom layer	0.00	Bottom layer	0.00	
		Thickest layer	0.00	Thickest layer	0.00	
Clearwater,	 	 	1	 		
depressional	3	Poor:	İ	Poor:	į	
	ļ	Bottom layer	•	Bottom layer	0.00	
	 	Thickest layer	0.00	Thickest layer	0.00	
Rosewood	3	Poor:	i	  Fair:	i	
		Bottom layer	0.00	Thickest layer	0.02	
		Thickest layer	0.00	Bottom layer	0.25	
Ulen	   1	  Poor:		  Fair:	i	
	ĺ	Bottom layer	0.00	Thickest layer	0.05	
		Thickest layer	0.00	Bottom layer	0.25	
Wyandotte	   1	  Fair:		  Fair:	l	
	İ	Bottom layer	0.00	!	0.00	
	ļ	Thickest layer	0.25	Thickest layer	0.10	
164A:	i I	 		 	l I	
Ulen	70	Poor:	i	  Fair:	i	
	ĺ	Bottom layer	0.00	Thickest layer	0.05	
	ļ	Thickest layer	0.00	Bottom layer	0.25	
	I	I	I	I	I	

Table 21a.--Construction Materials--Continued

component name	Pct. of map	of gravel	urce	Potential as sou of sand			
	unit 	   Rating class	Value	Rating class	Value		
	!	<u></u>	!				
I64A: Rosewood	   10   	  Poor:   Bottom layer   Thickest layer	  0.00  0.00	<u> </u>	  0.02  0.25		
Flaming	   8   	  Poor:   Bottom layer   Thickest layer	  0.00  0.00	<u> </u>	  0.02  0.25		
Karlsruhe	   5 	  Poor:   Thickest layer   Bottom layer	  0.00  0.00	<u> </u>	  0.07  0.54		
Radium	   3 	  Poor:   Bottom layer   Thickest layer	  0.00  0.00		    0.72  0.79		
Strathcona	   2   	  Poor:   Bottom layer   Thickest layer	  0.00  0.00	· -	  0.00  0.25		
Thiefriver	   2   	  Poor:   Bottom layer   Thickest layer		  Fair:   Bottom layer   Thickest layer	  0.00  0.01		
I65A:	 	 	l I	[ ]			
Ulen	70   	Poor:   Bottom layer   Thickest layer	0.00	<u> </u>	0.05		
Rosewood	   10   	  Poor:   Bottom layer   Thickest layer	  0.00  0.00	<u> </u>	  0.02  0.25		
Flaming	   6 	  Poor:   Bottom layer   Thickest layer	0.00	  Fair:   Thickest layer   Bottom layer	    0.02  0.25		
Poppleton	   4   	  Poor:   Bottom layer   Thickest layer	    0.00  0.00	<u> </u>	    0.25  0.25		
Karlsruhe	   3 	  Poor:   Thickest layer   Bottom layer	:	:	    0.07  0.54		
Radium	   3 	  Poor:   Bottom layer   Thickest layer		  Fair:   Thickest layer   Bottom layer	    0.72  0.79		
Strathcona	   2   	  Poor:   Bottom layer   Thickest layer		  Fair:   Bottom layer   Thickest layer	  0.00  0.25		
Thiefriver	   2   	  Poor:   Bottom layer   Thickest layer	:	  Fair:   Bottom layer   Thickest layer	  0.00  0.01		
I66A: Vallers	     75   	    Poor:   Bottom layer   Thickest layer 	    0.00  0.00	<u> </u>	    0.00  0.00		

Table 21a.--Construction Materials--Continued

component name	Pct. of map	of gravel	urce	Potential as sou of sand	rce
	unit 		Value	Rating class	Value
	 	Racing class		Racing class	
<pre>I66A:   Vallers, very cobbly</pre>	   7 	Bottom layer	0.00	  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Hamerly	   6     	Bottom layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Grimstad	   3   	Bottom layer	:	Fair:   Bottom layer   Thickest layer	  0.00  0.05
Mavie	   3   	:	:	Fair:   Bottom layer   Thickest layer	  0.00  0.61
Roliss, depressional	   3   	Bottom layer	0.00	Poor:   Bottom layer   Thickest layer	0.00
Strathcona	   3   	Bottom layer	:	   Fair:   Bottom layer   Thickest layer	0.00
I67A: Wheatville	     70 		0.00	  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Augsburg	   13 		0.00	  Poor:   Bottom layer   Thickest layer	    0.00  0.00
Glyndon	   8 	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Foxlake	   5   	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Hilaire	   2 	  Poor:   Bottom layer   Thickest layer		  Fair:   Bottom layer   Thickest layer	  0.00  0.25
Ulen	   2   	  Poor:   Bottom layer   Thickest layer	0.00	   Fair:   Thickest layer   Bottom layer	  0.05  0.25
I69A: Wyandotte	     65   	  Fair:   Bottom layer   Thickest layer	0.00	Fair: Bottom layer Thickest layer	    0.00  0.10
Foxlake	   10 	  Poor:   Bottom layer   Thickest layer	0.00	  Poor:   Bottom layer   Thickest layer	  0.00  0.00
Espelie	   8   	  Poor:   Bottom layer   Thickest layer	  0.00  0.00	_	  0.00  0.13

Table 21a.--Construction Materials--Continued

= =	Pct. of		ource	Potential as sou of sand	irce
	map				
	unit				
	L	Rating class	Value	Rating class	Value
			ļ		ļ
I69A:			l		ļ
Clearwater, depressional	   5	  Poor:	l i	  Poor:	-
depressional	]	•		Bottom layer	0.00
	i I	Thickest layer		Thickest layer	0.00
	i	i	i		1
Thiefriver	5	Poor:	į	Fair:	į
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.01
		<u> </u>	ļ		ļ
Karlsruhe	4	Poor:		Fair:	
		!	:	Thickest layer	0.07
	l I	Bottom layer	10.00	Bottom layer	0.54
Syrene	l   3	  Poor:	i	  Fair:	ł
-3	i	Bottom layer		Bottom layer	0.22
	i	Thickest layer	:	Thickest layer	0.22
	İ	j	j	İ	į
I70A:		[			
Strathcona	70	Poor:		Fair:	
		Bottom layer	:	Bottom layer	0.00
	ļ	Thickest layer	0.00	Thickest layer	0.25
Kratka		   December	l	  Poor:	ļ
Kratka	I I 10	Poor:   Bottom layer	!	Bottom layer	0.00
	 	!	:	Thickest layer	0.00
	i				
Roliss	6	Poor:	j	Poor:	į
	ĺ	Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
	! _		ļ		ļ
Grimstad	5	Poor:		Fair:	10.00
	 	Bottom layer	:	Bottom layer   Thickest layer	0.00
	 	Inickest layer	1	INICKESC TAYEL	10.03
Mavie	3	  Fair:		  Fair:	i
	i	Bottom layer	0.00	Bottom layer	0.00
	İ	Thickest layer	0.12	Thickest layer	0.61
Rosewood	3	Poor:	!	Fair:	!
		Bottom layer	:	Thickest layer	0.02
	 	Thickest layer	10.00	Bottom layer	0.25
Strathcona,	l I	 	l	 	-
depressional	l   3	  Poor:	i	  Fair:	i
	i	Bottom layer	0.00		0.00
	į	Thickest layer	0.00	Thickest layer	0.25
		[			
I71A:					
Berner, ponded	45	:	- 1	Not rated	!
		Bottom layer	0.00		!
	l I	Thickest layer	0.00	 	
Cathro, ponded	I   45	  Poor:	l	  Not rated	
same, ponded	25	Bottom layer	0.00		i
	i	Thickest layer	0.00		i
					i
	İ				1
Hamre	   2	  Poor:		  Not rated	i
Hamre	   2 	  Poor:   Bottom layer	0.00	  Not rated 	

Table 21a.--Construction Materials--Continued

component name	of		ırce	Potential as sou of sand	rce
	map	!			
	unit 	'	Value	Rating class	Value
	i .				
I71A:	ĺ	İ	İ	İ	İ
Kratka	2	Poor:	•	Poor:	
		Bottom layer	1	Bottom layer	0.00
	 	Thickest layer	10.00	Thickest layer	0.00
Northwood	2	Poor:	i	  Fair:	i
	į	Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.13
Roliss	   2	  Poor:		  Poor:	i
	į	Bottom layer	0.00	Bottom layer	0.00
	!	Thickest layer	0.00	Thickest layer	0.00
Seelyeville, ponded	   2	  Poor:		  Not rated	
seelyeville, ponded	<u>4</u> 	Bottom layer	0.00	!	
	! 	Thickest layer	0.00	:	i
	İ	İ	į	İ	İ
I72A: Pelan	   65	  Poor:		  Fair:	
relaii	03 	Bottom layer		Bottom layer	10.00
	i	Thickest layer	1	Thickest layer	0.51
	İ	İ	İ	İ	İ
Smiley	10	Poor:	!	Poor:	
	l I	Bottom layer   Thickest layer	1	Bottom layer Thickest layer	0.00  0.00
	i I	Inickest layer	1	Inickest layer	1
Linveldt	8	Poor:	į	Poor:	İ
		Bottom layer	1	Bottom layer	0.00
	 	Thickest layer	0.00	Thickest layer 	0.00
Kratka	5	Poor:	i	Poor:	i
		Bottom layer	0.00	Bottom layer	0.00
	 	Thickest layer	0.00	Thickest layer	0.00
Strandquist	   5	  Fair:	i	  Fair:	ł
-	į	Bottom layer	0.00	Bottom layer	0.00
	ļ	Thickest layer	0.12	Thickest layer	0.68
Reiner	   4	  Poor:		  Poor:	
Keinei	*	Bottom layer	1	Bottom layer	0.00
	i	Thickest layer	1	Thickest layer	0.00
		<u> </u>	İ	ļ .	ļ
Eckvoll	3	Poor:		:	
	 	Bottom layer   Thickest layer	•	Bottom layer Thickest layer	0.00  0.25
I73A:		<u> </u>	ļ	!	ļ
Boash	75	Poor:	1	Poor:	
	l I	Bottom layer   Thickest layer	:	Bottom layer Thickest layer	0.00  0.00
	İ				
Clearwater	8	Poor:	ĺ	Poor:	İ
	ļ	Bottom layer	:	Bottom layer	0.00
	i I	Thickest layer	10.00	Thickest layer 	0.00
Roliss	   8	  Poor:	1	  Poor:	
		!	1	!	10 00
		Bottom layer	0.00	Bottom layer	0.00

Table 21a.--Construction Materials--Continued

	Pct. of	'	rce	Potential as sou of sand	rce
_	map				
	unit	l		<u> </u>	
		Rating class	Value	Rating class	Value
173A:	 	 			
Clearwater, depressional	   5	  Poor:	l I	  Poor:	l I
dol-1000-1011		Bottom layer	:		0.00
	 		:	Thickest layer	0.00
Kittson	2	Poor:		Poor:	i
	ļ	Bottom layer	:	_	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
Newfolden	2	Poor:		Poor:	i
		Bottom layer	0.00	Bottom layer	0.00
	 	Thickest layer 	0.00 	Thickest layer 	0.00 
174A:			į		į
Urban land	65 	Not rated 	 	Not rated 	
Endoaquents	35 I	Not rated	İ I	  Not rated 	İ
I75A:	į		į		į
Radium	40			Fair:	
	 		1	Thickest layer Bottom layer	0.72
Sandberg	20	1	,	Fair:	
	 	•		Thickest layer Bottom layer	0.07
	! 	INICKESC TAYET		BOCCOM Tayer	
Garborg	15	Poor:	Ì	Fair:	İ
	!	•		Thickest layer	:
	 	Thickest layer 	0.00 	Bottom layer 	0.25 
Oylen	10	Poor:	İ	Fair:	i
	ļ		1	Bottom layer	0.58
	 	Thickest layer 	0.00 	Thickest layer 	0.72 
Flaming	5	Poor:		Fair:	į
	!	Bottom layer	1		0.02
	 	Thickest layer 	0.00 	Bottom layer 	0.25 
Karlsruhe	3	Poor:	i	Fair:	i
				Thickest layer	0.07
	 	Bottom layer	0.00 	Bottom layer 	0.54 
Venlo	3	•		  Fair:	i
			:		0.00
	 	Thickest layer 	0.00 	Bottom layer 	0.25 
Hangaard	2	'		Fair:	į
				•	0.04
	 	Inickest layer	0.00	Bottom layer 	0.51 
Sioux	2	Poor:	İ	  Fair:	i
	ļ			•	0.03
	 	Bottom layer 	0.00 	Bottom layer 	0.64 
M-W:	i	İ	i	İ	i
Miscellaneous water				Not rated	

Table 21a.--Construction Materials--Continued

	Ţ	ļ.		ļ.			
Map symbol and	Pct.	Potential as so	ırce	Potential as so	Potential as source		
component name	of	of gravel		of sand	of sand		
	map						
	unit						
		Rating class	Value	Rating class	Value		
W:							
Water	- 100	Not rated		Not rated			

## Table 21b.--Construction Materials

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 0.99. The smaller the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

component name		•		•	rce	Potential as sou of topsoil	rce
	i 				•	Rating class and limiting features	
B109A: Bowstring	     45 	    Good 	•	    Poor:   Depth to	•	    Poor:   Depth to	      0.00
	     	 	     	saturated zone     	:	saturated zone   Content of   organic matter	  0.00   
Fluvaquents	40     	Good     	•	Poor:   Depth to   saturated zone	0.00	Poor:   Depth to   saturated zone   Rock fragments	:
Hapludalfs	i I	  Fair:   Low content of   organic matter   Water erosion	0.12	Depth to	0.00	! -	    0.00  0.88
Seelyeville	İ	  Poor:   Wind erosion	   	  Poor:   Depth to	    0.00	  Poor:   Depth to   saturated zone	    0.00
Water	   5	  Not rated	 	  Not rated		  Not rated	
B200A: Garnes	i !	  Fair:   Low content of   organic matter   Carbonate content   Water erosion	0.12    0.97	Depth to saturated zone	0.22	saturated zone	ĺ
Chilgren	i I	  Fair:   Low content of   organic matter   Carbonate content   Water erosion	0.12    0.97	saturated zone Low strength	0.00	saturated zone	
Eckvoll	   5       	Wind erosion Too sandy Low content of organic matter	0.00	Low strength Depth to		Too sandy	  0.06  0.88   
Garnes, very stony	:	Low content of organic matter Carbonate content	0.12	Depth to saturated zone	0.22	  Fair:   Depth to   saturated zone   Carbonate content	:

Table 21b.--Construction Materials--Continued

component name	of map	!		•	rce	Potential as sou	rce
	unit   	Rating class and			•	   Rating class and   limiting features	
B200A: Grygla		Low content of organic matter Too sandy	0.00  0.12	saturated zone Low strength	0.00 	saturated zone	      0.00    0.50
Pelan		Low content of organic matter	0.12 		0.22	  Fair:   Depth to   saturated zone 	    0.88     
B201A: Chilgren		Low content of organic matter	  0.12    0.97	saturated zone Low strength	0.00 	  Poor:   Depth to   saturated zone   Carbonate content	i
Garnes		Low content of organic matter	0.12      0.97	Depth to saturated zone	0.22	  Fair:   Depth to   saturated zone   Carbonate content 	
Grygla	   5       	Wind erosion Low content of organic matter	0.00  0.12      0.50	saturated zone Low strength	0.00 	saturated zone	    0.00    0.50
Grygla, depressional	:	Low content of organic matter Too sandy	0.00	saturated zone Low strength	0.00 	saturated zone	    0.00    0.50
Hamre	   5     	Low content of	0.00  0.12 	  Poor:   Depth to   saturated zone   Low strength	0.00 	saturated zone	    0.00     
Pelan		Low content of organic matter	0.12 	Low strength	0.88	•	
B202A: Cathro	   80       	Wind erosion Low content of organic matter	0.00  0.12	saturated zone Low strength	0.00 	   Poor:   Depth to   saturated zone   	

Table 21b.--Construction Materials--Continued

component name	•	!		Potential as sou of roadfill	rce	Potential as source of topsoil		
	   	'		Rating class and   limiting features		Rating class and limiting features	•	
					ļ			
B202A: Hamre	   8   	Low content of	0.00 0.12	!	0.00	saturated zone	    0.00	
	 	organic matter Water erosion	  0.99 		0.22	 	   	
Chilgren	   3   	Low content of organic matter	0.12	saturated zone	0.00	  Poor:   Depth to   saturated zone   Carbonate content	!	
	   	!	0.99	!		Carbonate content		
Northwood	   3     	Wind erosion   Low content of   organic matter	0.00  0.12		0.00	saturated zone	  0.00   	
Berner	2     	  Poor:   Wind erosion 		saturated zone	0.00	saturated zone	    0.00    0.00	
	   	 	   	 	İ	organic matter		
Grygla	   2   	!	!	! -	0.00	Poor:   Depth to   saturated zone	  0.00 	
	     	<u>-</u>	  0.50  0.99	!	0.22	Too sandy   	0.50   	
Seelyeville	   2   	Wind erosion	!	! -	•	saturated zone	0.00	
	 	 	   	 	   	Content of organic matter	0.00	
B203A: Northwood	     75	!		    Poor:		    Poor:	   	
	     	Low content of organic matter		saturated zone Low strength		saturated zone	0.00     	
Hamre	   10       	Wind erosion Low content of organic matter	0.00	saturated zone Low strength	0.00	saturated zone	  0.00   	
Grygla	   7   	•	0.00 0.12	  Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	    0.00    0.50	
	 	Too sandy	0.50 0.99	İ	<u> </u> 	-   	 	

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sour of topsoil	rce
	unit   	Rating class and				Rating class and   limiting features	
B203A: Berner	:	  Poor:   Wind erosion   		saturated zone	0.00	saturated zone	      0.00    0.00
Chilgren	i I	Low content of organic matter Carbonate content	0.12 	saturated zone Low strength	0.00	  Poor:   Depth to   saturated zone	
B204A: Roliss	i I	Low content of	0.12 	  Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	    0.00   
Grygla	   	Low content of organic matter Too sandy	0.00  0.12	saturated zone Low strength	0.00	saturated zone	    0.00    0.50
Chilgren	;   	Low content of organic matter Carbonate content	0.12 		0.00	saturated zone	    0.00    0.97
Garnes	i I	organic matter Carbonate content	0.12 	saturated zone	0.22	saturated zone	    0.88    0.97
Roliss, depressional	   5   	Low content of organic matter	0.12 	  Poor:   Depth to   saturated zone   Low strength	0.00	  Poor:   Depth to   saturated zone	    0.00   
Hamre	;   	  Poor:   Wind erosion   Low content of   organic matter   Water erosion	0.00  0.12 	saturated zone Low strength	0.00	saturated zone	    0.00     
B205A: Berner	80         			saturated zone	0.00	Poor:   Depth to   saturated zone   Content of   organic matter	  0.00
Northwood	;   	Wind erosion  Low content of	0.00  0.12 	Depth to saturated zone Low strength	İ	Depth to saturated zone	  0.00       

Table 21b.--Construction Materials--Continued

component name	of map	!		•	rce	Potential as sou of topsoil	rce
	unit   		•	Rating class and limiting features	•	   Rating class and   limiting features	
B205A: Grygla	     5 		0.00	    Poor:   Depth to   saturated zone	0.00	    Poor:   Depth to   saturated zone	      0.00
	       	organic matter Too sandy	:	Low strength	:	!	  0.50   
Cathro	   3     	Wind erosion   Low content of   organic matter	0.00 0.12		0.00	saturated zone	  0.00   
Hamre	   3     	Low content of organic matter	0.00 0.12	saturated zone Low strength	0.00	  Poor:   Depth to   saturated zone	  0.00   
Seelyeville	   2       	Wind erosion	•	<u> </u>	0.00	  Poor:   Depth to   saturated zone   Content of   organic matter	  0.00    0.00
B206A: Hamre	   80       	Wind erosion   Low content of   organic matter	0.00  0.12		0.00	saturated zone	    0.00   
Chilgren	   8       	organic matter Carbonate content	0.12	saturated zone Low strength	0.00	   Poor:   Depth to   saturated zone   Carbonate content	į
Northwood	   5       	Low content of organic matter	0.00 0.12	saturated zone Low strength	0.00	saturated zone	    0.00     
Cathro	   3       	Wind erosion   Low content of   organic matter	0.00  0.12	saturated zone Low strength	0.00	saturated zone	    0.00     
Grygla	2       	Low content of organic matter Too sandy	0.00	saturated zone Low strength	0.00	saturated zone	  0.00    0.50

Table 21b.--Construction Materials--Continued

component name		!		•	rce	Potential as sour of topsoil	rce
		Rating class and				Rating class and limiting features	
B206A:		 	 	 		 	
Roliss	2	  Fair:	! 	Poor:	i	Poor:	İ
	İ	Low content of	0.12				0.00
		organic matter Water erosion		!	:	saturated zone	
		Water erosion		Low screngen		 	! 
B207A:		l mada		l mada		l mada	ļ
Pelan	70 	1		Fair:	10 22	'	   0 0 0
	 	organic matter				Depth to saturated zone	
		Water erosion			:	Sacuraced Zone	<u> </u>
offerial access		l mada		l Danasa		l Danier	ļ
Chilgren	•	Fair:   Low content of		Poor:	10.00	•	  0.00
	 	•		•		saturated zone	
	l	Carbonate content		•	•	•	
	İ	Water erosion		•			
Garnes	   10	  Fair:	 	  Fair:		  Fair:	 
Carnes		Low content of		•		•	  0.88
	i	•		•	•	saturated zone	
	į	Carbonate content	0.97	saturated zone	İ	Carbonate content	0.97
		Water erosion	0.99		İ		İ
Eckvoll	   5	  Poor:	 	  Fair:	 	  Fair:	 
	i	Wind erosion	0.00	Low strength	0.22	Too sandy	0.06
	į	Too sandy	0.06	Depth to	0.88	Depth to	0.88
		Low content of		saturated zone		saturated zone	
		organic matter Water erosion		 		 	
		Water erosion		 		 	<u> </u>
Grygla	5	Poor:		Poor:		Poor:	
		Wind erosion				•	0.00
	ļ	Low content of		•	•	saturated zone	:
			1	Low strength	0.22	Too sandy	0.50
	 	Too sandy Water erosion	0.50  0.99		 	 	 
	į		į		į		į
B208A: Grygla	   75	  Poor:	 	  Poor:	 	  Poor:	 
01/514				•		•	0.00
	į	Low content of	0.12	saturated zone		saturated zone	į
	ĺ	organic matter	ĺ	Low strength	0.22	Too sandy	0.50
		Too sandy	0.50				
		Water erosion	0.99	 		 	
Chilgren	10	  Fair:		  Poor:		  Poor:	
		Low content of	0.12	Depth to	0.00	Depth to	0.00
		organic matter		•		saturated zone	
		Carbonate content   Water erosion	0.97  0.99		0.22	Carbonate content	0.97 
			İ	İ	İ		i
Eckvoll	:	Poor:	!	Fair:		Fair:	
	I I	!	:		:	<u>-</u>	0.06  n 88
		<u>-</u>	0.12		:	Depth to saturated zone	0.88 
		organic matter		Sacuraced Zoile	1	sacuraced zone	i I
	i		0.99		i		i
	i	i	i	I	i	i	i

Table 21b.--Construction Materials--Continued

component name		!		•	rce	Potential as sou of topsoil	rce
		Rating class and		Rating class and   limiting features			
B208A: Grygla, depressional	   	Wind erosion   Low content of   organic matter	0.00  0.12      0.50	saturated zone Low strength	0.00 	saturated zone	      0.00    0.50
Northwood	i	Low content of	0.00  0.12 	saturated zone	0.00	saturated zone	    0.00     
B209A: Seelyeville	   90       	Wind erosion	0.00	  Poor:   Depth to   saturated zone 	0.00	Poor:   Depth to   saturated zone   Content of   organic matter	0.00
Cathro	   	Wind erosion   Low content of	0.00  0.12 	saturated zone Low strength	0.00	  Poor:   Depth to   saturated zone	  0.00   
Dora	   	•	0.00  0.12 	saturated zone Low strength	0.00	-	0.00
Markey	İ	Wind erosion		! -	0.00 	saturated zone	0.00
Berner	   1     	1		saturated zone	0.00	saturated zone	    0.00    0.00
B210A: Eckvoll	   70           	Wind erosion Too sandy Low content of organic matter	0.00  0.06  0.12	Depth to saturated zone	0.22	•	    0.06  0.88   
Chilgren	12           	Low content of organic matter Carbonate content	0.12	saturated zone Low strength	0.00	  Poor:   Depth to   saturated zone   Carbonate content 	

Table 21b.--Construction Materials--Continued

component name	of map	of reclamation mate		Potential as sou of roadfill	rce	Potential as sou of topsoil	rce
	unit   	Rating class and		Rating class and   limiting features	,		
B210A: Grygla	     8 	•	0.00	    Poor:   Depth to   saturated zone	0.00	  Poor:   Depth to   saturated zone	      0.00
	     	Water erosion	0.50  0.99 	 	   		0.50     
Garnes	7       	organic matter Carbonate content	0.12 	Depth to saturated zone	0.22	Fair:    Depth to   saturated zone   Carbonate content	j
Pelan	   3     	organic matter	0.12 		0.22	Fair:   Depth to   saturated zone	  0.88     
B211A: Berner, ponded	   45       	  Good       	!	  Poor:   Depth to   saturated zone   Low strength	0.00 	saturated zone	  0.00    0.00 
Cathro, ponded	   45     	Low content of organic matter	0.12	saturated zone	0.00	saturated zone	  0.00   
Chilgren	:	Low content of organic matter Carbonate content	0.12	saturated zone Low strength	0.00	Poor:   Depth to   saturated zone   Carbonate content	  0.00    0.97
Grygla	   2         	Low content of	0.00  0.12      0.50	saturated zone Low strength	0.00	saturated zone	  0.00    0.50 
Hamre	   2         	Low content of organic matter	0.00	!	0.00	saturated zone	  0.00       
Northwood	2         	Low content of organic matter	0.00		0.00	saturated zone	  0.00       
Seelyeville, ponded	2         	'	•	Poor:   Depth to   saturated zone   	0.00	saturated zone	  0.00    0.00 

Table 21b.--Construction Materials--Continued

component name	map	of reclamation mate		Potential as sou of roadfill	rce	Potential as sou of topsoil	rce
	unit   	'	:	   Rating class and   limiting features		   Rating class and   limiting features	
I1A: Augsburg	     75     	Low content of organic matter	0.12    0.13	saturated zone Low strength	0.00	saturated zone Too sandy	      0.00    0.13
Borup	   10   	  Fair:	    0.12 	  Poor:   Depth to   saturated zone	    0.00	  Poor:	!
Foxlake	   5       	!	0.00 0.12	saturated zone Low strength	0.00	saturated zone Too clayey	  0.00    0.00
Augsburg, depressional	   3       	!	0.12	saturated zone Low strength	0.00	saturated zone Carbonate content	    0.00    0.16
Wheatville	   3     	Low content of organic matter Carbonate content	0.12    0.32	Depth to saturated zone	0.00	saturated zone Carbonate content	!
Glyndon	   2   	  Fair:   Low content of   organic matter   Carbonate content	0.12	saturated zone	0.00	  Poor:   Depth to   saturated zone   Carbonate content	    0.00    0.32
Espelie	   1     	Too clayey	0.00	saturated zone	0.00	saturated zone Too clayey	    0.00    0.00
Hattie	   1       	!	0.00	Shrink-swell	0.00	Depth to	  0.00  0.65   
I3A: Berner	   80     	  Not rated     	         	  Poor:   Depth to   saturated zone   Low strength	    0.00    0.22	  Not rated     	         
Northwood	   7       	Wind erosion   Low content of   organic matter	0.00	saturated zone Low strength	  0.00    0.22 	saturated zone	  0.00     

Table 21b.--Construction Materials--Continued

Map symbol and component name	map	of reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
	unit 	'	Value	   Rating class and	Value	   Rating class and	Value
	<u> </u>	limiting features		limiting features		limiting features	<u> </u>
I3A: Kratka	     5	    Fair:	!	    Poor:   Depth to	!	    Poor:   Depth to	
	     	organic matter	0.12    0.99 	saturated zone	0.00    0.22	saturated zone	0.00   
Hamre	   3       	Low content of organic matter	!	saturated zone Low strength	,	saturated zone	  0.00     
Strathcona	į Į	organic matter Carbonate content	0.12	saturated zone	  0.00    0.22 	saturated zone	  0.00     
Seelyeville	2     	  Not rated     	     	  Poor:   Depth to   saturated zone 	  0.00   	  Not rated   	     
I4A: Berner	30	  Not rated	 	  Poor:	!	  Not rated	 
	     	   	     	saturated zone	0.00    0.22	 	     
Rosewood,	i	 	i	İ	i	 	i
depressional	30         	Too sandy	0.00  0.12 	saturated zone	  0.00       	Depth to saturated zone	  0.00  0.00    0.88
Strathcona,	į	İ	į	j	j	İ	İ
depressional	30       	Low content of organic matter Carbonate content	0.12	saturated zone	  0.00    0.22 	Poor:   Depth to   saturated zone 	  0.00     
Rosewood	4   4   	· -	0.00  0.12 	! -	    0.00   	Depth to saturated zone	  0.00  0.00   
Deerwood	   2       	  Poor:   Too sandy   Wind erosion	İ		      0.00   	   Poor:   Too sandy   Depth to   saturated zone	      0.00  0.00    0.28
Mavie	   2         	  Poor:   Too sandy   Low content of   organic matter   Carbonate content	0.00  0.12 	! -	  0.00    0.22 	   Poor:   Too sandy   Depth to   saturated zone	  0.00  0.00    0.00

Table 21b.--Construction Materials--Continued

limiting features     Fair:   Low content of   organic matter   Carbonate content   Water erosion	             0.12     0.92     0.99     	Poor: Low strength  Poor: Depth to Saturated zone Low strength  Poor: Depth to Saturated zone	      0.00    0.22     	saturated zone	        0.00         
Low content of organic matter Carbonate content Water erosion	0.12   0.92   0.99 	Depth to saturated zone Low strength  Poor: Depth to saturated zone	0.00    0.22              0.00	Depth to saturated zone  poor: Depth to	       
Low content of organic matter Carbonate content  Fair: Low content of organic matter Carbonate content	0.12    0.32      0.12	Depth to saturated zone	0.00	Depth to	   
Low content of organic matter Carbonate content	0.12	  Poor:		saturated zone   Carbonate content	0.00    0.32
  Poor:		Depth to saturated zone		  Poor:   Depth to   saturated zone   Carbonate content	    0.00    0.32
· -	0.00  0.12 	saturated zone	    0.00     	Depth to saturated zone	  0.00  0.00    0.88
organic matter	0.12    0.13	saturated zone Low strength	  0.00    0.00  0.84	saturated zone	    0.00    0.13
organic matter	0.12	saturated zone Low strength	0.00    0.00	saturated zone Carbonate content	    0.00    0.16
    Not rated   	       		!	  Not rated   	       
  Good   	       		:	Depth to saturated zone	    0.00    0.88
  Fair:   Low content of   organic matter	!	  Good 	     	!	    0.37 
  Not rated		Not rated		  Not rated	   
	0.00  0.12 	Depth to saturated zone Low strength	0.00 	Depth to saturated zone	      0.00 
	Carbonate content           Not rated      Good        Fair:   Low content of   organic matter    Not rated    Poor:   Wind erosion   Low content of   organic matter	Carbonate content 0.16	Carbonate content   0.16   Low strength   Shrink-swell	Carbonate content   0.16   Low strength   0.00	Carbonate content   0.16   Low strength   0.00   Carbonate content   Shrink-swell   0.84

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sou of topsoil	rce
	unit   	Rating class and		   Rating class and   limiting features			
I8A: Hamre		Wind erosion   Low content of	0.00  0.12 	  Poor:   Depth to   saturated zone   Low strength	0.00 	saturated zone	      0.00   
Northwood	į	Wind erosion   Low content of	0.00  0.12 	  Poor:   Depth to   saturated zone   Low strength	0.00 	saturated zone	    0.00   
Roliss		Low content of organic matter	0.12 	   Poor:   Depth to   saturated zone   Low strength	0.00 	saturated zone	    0.00   
Berner	   2     	  Not rated   	i I	  Poor:   Depth to   saturated zone   Low strength	0.00	į	       
Kratka	;   	Low content of	0.12 	  Poor:   Depth to   saturated zone   Low strength	0.00 	saturated zone	    0.00 
Seelyeville	   2   	  Not rated   		  Poor:   Depth to   saturated zone	0.00	  Not rated   	     
I9A: Clearwater	   80       	Too clayey	0.00  0.12	·	0.00	saturated zone Too clayey	      0.00    0.00
Clearwater, very cobbly	   5       	•	!	!	    0.00    0.00  0.12	saturated zone	    0.00    0.00
Reis	   5       	!	0.00  0.12 	saturated zone Low strength	  0.00    0.00  0.12	Depth to saturated zone	  0.00  0.00    0.68
Clearwater, depressional	   3       	!	    0.00  0.12   	saturated zone Low strength	    0.00    0.00  0.12	saturated zone Too clayey	    0.00    0.00

Table 21b.--Construction Materials--Continued

component name				•	rce	Potential as sou of topsoil	ırce
	<u>i</u> L	Rating class and limiting features	•	Rating class and limiting features	•		
I9A: Espelie	:	Too clayey	0.00  0.12	  Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	    0.00    0.00
Foxlake	   2       	Too clayey	0.00  0.12	  Poor:   Depth to   saturated zone   Low strength	0.00 	  Poor:   Depth to   saturated zone   Too clayey	    0.00    0.00
Hattie	   1     	  Poor:   Too clayey   Low content of   organic matter	0.00	Shrink-swell	0.00  0.12  0.65	  Poor:   Too clayey   Depth to   saturated zone	  0.00  0.65 
Huot	:	  Fair:   Low content of   organic matter   Carbonate content	0.12 		0.00  0.86  0.88	  Fair:   Depth to   saturated zone   Rock fragments	  0.88    0.97
IllA: Deerwood	i I	Too sandy Wind erosion	•	saturated zone	0.00   	  Poor:   Too sandy   Depth to   saturated zone   Rock fragments	    0.00  0.00    0.28
Rosewood	į	Too sandy	0.00  0.12 	saturated zone	0.00	  Poor:   Too sandy   Depth to   saturated zone   Rock fragments	  0.00  0.00    0.88
Markey	   3 	  Not rated   	     	  Poor:   Depth to   saturated zone	0.00	  Not rated   	     
Strathcona	i I	Low content of	0.12    0.92	saturated zone Low strength	0.00	saturated zone	  0.00   
Syrene	;       	Low content of organic matter Droughty	0.12    0.17  0.22	saturated zone   	0.00     	saturated zone Rock fragments	0.00
Venlo	;   	Too sandy Low content of organic matter	0.00	saturated zone	0.00	:	  0.00  0.00 

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sou	rce
	unit   	Rating class and				   Rating class and   limiting features	
			i .				İ
I12A:	İ	İ	į	İ	j j	İ	İ
Eckvoll	70	•		Fair:		Poor:	
				Low strength			0.00
	!	•				-	0.88
	   	Low content of organic matter Water erosion	ĺ	saturated zone   	   	saturated zone   	   
	i		İ		i		İ
Kratka			į	Poor:		Poor:	İ
		Low content of	0.12	Depth to	0.00	Depth to	0.00
		organic matter		saturated zone		saturated zone	
		Water erosion	0.99	Low strength	0.22		
Smiley	   7	  Fair:	 	  Poor:		  Poor:	l I
DMI I C J		Low content of		1		•	0.00
	i	•	•	•		saturated zone	
	i	Carbonate content		•		•	
	İ	Water erosion			į į	İ	İ
Linveldt		   Page		  Fair:		   Danie	
rinvergr	l a	•		'		Poor:	0.00
	l I			Low strength Depth to			10.50
	 	•		saturated zone			0.88
	i	Carbonate content			i :	saturated zone	
	i	Water erosion		1	i		į
Daiman							
Reiner		Fair:   Low content of		Fair:		Fair:	   0 0 0
	l I					saturated zone	
	 	_		_		Carbonate content	
	İ	Water erosion	1		İ		
Foldahl						   Danier	
FOIdani				Fair:   Low strength	10 22	•	0.00
	I I	•				_	10.88
	! 	•		saturated zone		saturated zone	
	İ	organic matter	•		i		i
	İ	Water erosion	0.99	İ	į į	İ	İ
Pelan		  Enima		  Fair:		  Fair:	
Peran	<u>4</u> 	1				1	0.88
	<u> </u>	organic matter		Depth to	0.88	<del>-</del>	1
	i	•	0.99	•			i
_		<u> </u>	ļ	<u> </u>	[		ļ
Poppleton	1	Poor:	:	Fair:		Poor:	
	!	<u>-</u>	:	<u>.                                      </u>	0.88	<u>-</u>	0.00
	l I	!	0.00  0.12	!		Depth to saturated zone	0.88
	I I	organic matter	U.14 	1 		sacuraceu zone	
	<u> </u>	!	  0.81				
-10-	ļ		ļ		ļ į		ļ
I13A: Espelie	   75	  Poor•	[ [	  Poor:	 	  Poor:	l I
Pobette	, , <u>,</u>	!	:		0.00	!	0.00
	i		0.12			saturated zone	
	i	organic matter		Low strength	0.00		0.00
	i	. <u> </u>	i	Shrink-swell	0.57		i

Table 21b.--Construction Materials--Continued

component name	map	of reclamation mate		Potential as sou of roadfill	rce	Potential as sou of topsoil	rce
	unit   	'	Value	   Rating class and   limiting features	•	Rating class and limiting features	Value
I13A: Foxlake	   8       		    0.00  0.12 	saturated zone Low strength	    0.00    0.00  0.38	saturated zone	      0.00    0.00
Hilaire	   7       	Wind erosion	!	Shrink-swell	0.00	Depth to	  0.00  0.88    0.97
Clearwater, depressional	   5       	!	!	saturated zone		   Poor:   Depth to   saturated zone   Too clayey	    0.00    0.00
Thiefriver	   5       	  Fair:   Low content of   organic matter   Carbonate content 	0.12	  Poor:   Depth to   saturated zone   Low strength   Shrink-swell	  0.00    0.00  0.82	  Poor:   Depth to   saturated zone   	    0.00       
I15A: Flaming	   70         	Too sandy Wind erosion Low content of organic matter	  0.00  0.00  0.12    0.75	saturated zone   	    0.88     	  Poor:   Too sandy   Depth to   saturated zone	  0.00  0.88   
Garborg	   10   	Wind erosion	!	! -	!	  Fair:   Depth to   saturated zone   Too sandy	  0.12    0.45
Hamar	   5       	Wind erosion   Low content of   organic matter	  0.00  0.00  0.12    0.83	saturated zone	    0.00       	Poor: Too sandy Depth to saturated zone	    0.00  0.00   
Ulen	   5       	Low content of organic matter Carbonate content	0.16  0.50 	saturated zone	    0.50     	_	  0.16  0.50    0.68
Poppleton	   3         	Wind erosion Low content of organic matter	  0.00  0.00  0.12    0.81	saturated zone   	    0.88         	   Poor:   Too sandy   Depth to   saturated zone   	  0.00  0.88     

Table 21b.--Construction Materials--Continued

component name		Potential as sour   of reclamation mat 		Potential as sou   of roadfill 	rce	Potential as sou of topsoil	ırce
	unite 	'		Rating class and   limiting features		Rating class and   limiting features	
I15A: Sandberg	   3       	Low content of organic matter Droughty	0.00	 	           	  Fair:   Rock fragments   Too sandy   Hard to reclaim 	    0.12  0.47  0.92
Foldahl	 	Wind erosion   Low content of   organic matter	0.00  0.00  0.12	Depth to   saturated zone	0.22	<u> </u>	  0.00  0.88   
Radium	   2         	Wind erosion Low content of organic matter	0.00  0.00  0.12	 	           	   Poor:   Too sandy   Rock fragments   	  0.00  0.50 
I16F: Fluvaquents	   55     	  Good   	       	  Poor:   Depth to   saturated zone	:	  Poor:   Depth to   saturated zone   Rock fragments	0.00
Hapludolls	   25   	  Fair:   Low content of   organic matter	:	  Good   	:	  Fair:   Slope 	    0.37 
Hapludalfs	 	Low content of organic matter	0.12	Depth to	0.00	Poor:   Slope   Depth to   saturated zone	  0.00  0.88
Fairdale	   5     	  Good     	       	  Fair:   Depth to   saturated zone   Shrink-swell	0.88	  Fair:   Slope   Depth to   saturated zone	  0.63  0.88 
Water	   5 	  Not rated 	į	  Not rated 		  Not rated 	į
Bowstring	   2   	  Not rated   	1	  Poor:   Depth to   saturated zone	0.00	  Not rated   	 
Rauville	   1         	  Good       	į Į	saturated zone Low strength	0.00	saturated zone	  0.00     
I17A: Foldahl	   	Too sandy Low content of organic matter	0.00	saturated zone	0.22		  0.00  0.88 

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sou of topsoil	rce
	unit   	Rating class and		   Rating class and   limiting features			
I17A:	 	 	 	 	 	 	
Kratka	10	  Fair:	<u> </u>	Poor:	i	Poor:	i
		Low content of		•		•	0.00
		•		saturated zone		•	
	l I	water erosion	0.99 	Low strength	0 . 2 2 	 	
Roliss	5	  Fair:	i	Poor:	İ	Poor:	i
	ĺ	Low content of	0.12	Depth to	0.00	Depth to	0.00
	ļ	•		saturated zone		•	ļ
		Water erosion	0.99	Low strength	0.22	 	
Flaming	l   4	  Poor:	 	  Fair:		Poor:	1
	:			Depth to	,	•	0.00
	İ	Wind erosion	0.00	saturated zone	İ	Depth to	0.88
		Low content of		[		saturated zone	
		organic matter	:				
	 	Droughty 	0.75 	 		 	I
Grimstad	2	  Fair:	i	  Fair:	i	  Fair:	i
	İ	Low content of	0.12	Depth to	0.12	Depth to	0.12
		•		saturated zone		saturated zone	:
	:	<u>-</u>	:	Low strength	:	·	0.16
	 	Carbonate content   Water erosion		•		Carbonate content	10.92
	i				i		i
Linveldt	2	Poor:	İ	Fair:	İ	Poor:	İ
				Low strength			0.00
		Low content of				!	0.50
	 	organic matter   Carbonate content	1	saturated zone	1	Depth to saturated zone	0.88
	i	Water erosion			i		i
	ĺ	İ	ĺ	İ	Ì	İ	İ
Eckvoll	:	!	1	!		•	
	:	<u>-</u>	:	Low strength Depth to	:	:	0.00
	:	•		saturated zone		saturated zone	:
	İ	organic matter			i		i
		Water erosion	0.99	[			
Ohmobb some	1			   Page		   Daama	
Strathcona	+	•		Poor:   Depth to	1	Poor:   Depth to	0.00
	i	organic matter	!	saturated zone	!	saturated zone	
	į	•		Low strength		İ	i
	ļ	Water erosion	0.99	<u> </u>	ļ	<u> </u>	ļ
I18A:		  -		 		  -	
Foldahl	l I 75	  Poor:	! !	  Fair:		Poor:	
	į			•		!	0.00
	İ	Wind erosion	0.00	Depth to	0.88	Depth to	0.88
		!	0.12	saturated zone		saturated zone	
	 	organic matter Water erosion	  0.99	 	 	 	
		water erosion	0.99 	I 	 	 	
Kratka	10	Fair:	i	Poor:	İ	Poor:	i
		Low content of	0.12	Depth to	0.00	Depth to	0.00
	ļ	organic matter	:	saturated zone	:	saturated zone	!
	1	Water erosion	10.99	Low strength	0.22	I	1

Table 21b.--Construction Materials--Continued

component name		!		•	rce	Potential as sou of topsoil	rce
		Rating class and			,	Rating class and limiting features	
					1		
I18A: Roliss	   5			  Poor:		  Poor:	 
	 	organic matter	İ	Depth to saturated zone	İ	saturated zone	0.00 
		Water erosion	0.99	Low strength	0.22	1	!
Flaming	l I 4	  Poor:	 	  Fair:	 	  Poor:	 
5	i -			Depth to	,	1	0.00
	İ	Wind erosion	0.00	saturated zone	İ	Depth to	0.88
	ĺ	Low content of	0.12		ĺ	saturated zone	İ
		organic matter		'			
	!	Droughty	0.75	i	ļ		ļ
Grimstad	l I 2	  Fair:	 	  Fair:		  Fair:	
				Depth to			0.12
	İ	•		saturated zone	1	saturated zone	i
	į	Too sandy	0.16	Low strength	0.22	Too sandy	0.16
		Carbonate content	0.92			Carbonate content	0.92
	ļ	Water erosion	0.99		ļ		ļ
Linveldt	   2	  Boore		  Fair:		  Poor:	
Hinverdc	<u>4</u> 			!	!	!	0.00
	 						0.50
	<u> </u>	!	!	saturated zone	!		0.88
	i	Carbonate content		'	i	saturated zone	!
	į	!	0.99	!	İ	İ	į
Delma 11						   Danier	
Eckvoll	+	•		Fair:   Low strength		Poor:	0.00
	l I						0.88
	! 	!	:	saturated zone	:	saturated zone	1
	İ	organic matter			i		i
	į	Water erosion	0.99	İ	į	İ	į
		<u> </u>			ļ		
Strathcona	!	Fair:	!	Poor:		Poor:   Depth to	10.00
	 	Low content of organic matter	:	<u> </u>			10.00
	 	Carbonate content			0.22		1
	<u> </u>	Water erosion					i
		ļ	ļ.		ļ		
I19A: Foxhome	   65	  Fair:	 	  Fair:	 	  Fair:	
FOXIOME	03 	•		!	:		0.88
	! 	organic matter				saturated zone	1
	İ			saturated zone			i
		ļ .	ļ	<u> </u>	ļ	<u> </u>	ļ
Kittson	10			Fair:	:	Fair:	
		:	1	•			0.88
	I I	organic matter		Depth to saturated zone		saturated zone Carbonate content	10 02
	 	!	0.92	!		carbonate content	
	İ	İ	İ	İ	į	İ	İ
Strandquist	10	!	!	Poor:		Poor:	
	ı	I Town combont of	10 12	Depth to	10.00	Depth to	0.00
	ļ	!	:	<u> </u>	10.00		1000
	 	organic matter	İ	saturated zone	0.22	saturated zone	

Table 21b.--Construction Materials--Continued

component name		!		'	rce	Potential as sou of topsoil	rce
		Rating class and	•	-	•	Rating class and   limiting features	
I19A: Foldahl	   	Too sandy Low content of organic matter	0.00 0.12	Depth to saturated zone	0.22  0.88	!	      0.00  0.88 
Grimstad	   	Low content of organic matter Too sandy Carbonate content	0.12    0.16	saturated zone Low strength	0.12	saturated zone	0.16
Roliss	i I	Low content of	0.12	saturated zone	0.00	saturated zone	    0.00   
Mavie	   	Low content of organic matter Carbonate content	0.00  0.12 	saturated zone Low strength	0.00    0.22	Depth to saturated zone	0.00
I20A: Foxlake	į	Too clayey	0.00  0.12 	saturated zone Low strength	0.00 	saturated zone Too clayey	    0.00    0.00
Clearwater	   5     	Too clayey	0.00	saturated zone Low strength	0.00 	saturated zone Too clayey	    0.00    0.00
Foxlake, very cobbly	   5     	Too clayey		<u>.                                      </u>		saturated zone Too clayey	    0.00    0.00
Augsburg	   3       	organic matter	0.12    0.13	saturated zone Low strength	  0.00    0.00  0.84	saturated zone Too sandy	  0.00    0.13 
Clearwater, depressional	   3       	!	  0.00  0.12 	<u> </u>	    0.00    0.00  0.12	saturated zone Too clayey	    0.00    0.00

Table 21b.--Construction Materials--Continued

component name		•			rce	Potential as soud of topsoil	rce
		Rating class and				Rating class and	•
I20A:	l I	 	 	 	 	 	l I
Espelie	3	Poor:	i	Poor:	i	Poor:	İ
	ĺ	Too clayey	0.00	Depth to	0.00	Depth to	0.00
		•		•	:	saturated zone	:
	 	organic matter	•	:	0.00  0.57	Too clayey 	0.00 
Hilaire	   2	  Poor:	 	  Poor:	 	  Poor:	 
	j	Too sandy	0.00	Low strength	0.00	Too sandy	0.00
		•		•	0.86	Depth to	0.88
	ļ	Low content of	:	! -	:	saturated zone	:
	 	organic matter 	 	saturated zone 	 	Rock fragments 	0.97 
Reis	2			Poor:	:	Poor:	İ
			•		•		0.00
	 	Low content of organic matter	•	•	:	Depth to   saturated zone	0.00
		Carbonate content			•	Carbonate content	
Wheatville	   2	  Fair:	 	  Poor:	 	  Fair:	 
	j	Low content of	0.12	Low strength	0.00	Depth to	0.06
		organic matter				saturated zone	
		Carbonate content	•	•	:	!	0.32
	 	Water erosion 	0.90 	Shrink-swell 	0.80 	 	 
122A:	į		į		į		į
Glyndon	:	!	!	Poor:	!	Poor:	
	 	Low content of	:	saturated zone	:	Depth to saturated zone	!
		Carbonate content	:	:	:	Carbonate content	!
Borup	   10	  Fair:	 	  Poor:	 	  Poor:	l I
	j	Low content of	0.12	Depth to	0.00	Depth to	0.00
				saturated zone		saturated zone	
	 	Carbonate content	0.32 	 		Carbonate content	0.32
Augsburg	5	Fair:	į	Poor:	į	Poor:	i
		Low content of	0.12	Depth to			0.00
		organic matter	!	saturated zone	•	saturated zone	
	 	Carbonate content	0.32 		0.00  0.84		 
Ulen	   5	  Fair•	 	    Fair:		    Fair:	 
01611		Too sandy		•	:	!	0.16
	i	Low content of	:	! -		<u>-</u>	0.50
	İ	organic matter	ĺ	İ	ĺ	saturated zone	İ
	ļ	Carbonate content	:	!	ļ.	Carbonate content	0.68
	 	Droughty 	0.99 	 	 	 	 
Wheatville	3	!	:	Poor:	!	Fair:	
		•	•	•	:	Depth to	:
	 	organic matter	•	•		saturated zone Carbonate content	•
		Water erosion			0.80	!	
Flaming	   2	  Poor:	 	  Fair:	 	  Poor:	 
-	į	!	:	•		!	0.00
		Wind erosion	0.00	saturated zone		Depth to	0.88
	ļ	!	0.12	!	ļ.	saturated zone	ļ
		organic matter	:			  -	
	!	Droughty	0.75	!	!	!	Į.

Table 21b.--Construction Materials--Continued

component name		!				Potential as sou of topsoil	rce
		Rating class and		•		Rating class and limiting features	
I24A:						  -	
Grimstad	   70	  Fair:	 	  Fair:	İ	  Fair:	
		Low content of					0.12
		organic matter					
		Too sandy				-	-
		Carbonate content   Water erosion		•	l I	Carbonate content	0.92
	i			! 	i	! 	i
Strathcona	12	Fair:	İ	Poor:	İ	Poor:	į
		Low content of	•	•		•	
		organic matter					ļ
	 	Carbonate content   Water erosion			0.22	 	
		Water erosion	0 . 3 3 	! 	i	 	
Foldahl	5	Poor:	i	  Fair:	i	Poor:	i
		Too sandy					0.00
		Low content of	0.12	Depth to	0.88	Depth to	0.88
		organic matter Water erosion				saturated zone	
	 	water erosion	0 . 9 9 	 		 	
Hamerly	5	  Fair:	i	  Fair:	İ	  Fair:	i
		Low content of					
		organic matter					
		Carbonate content			0.22	Carbonate content	0.68
	 	Water erosion	0.99 	 	l I	 	
Foxhome	2	  Fair:	! 	  Fair:	i	  Fair:	i
	į	Low content of	0.12	Low strength	0.22	Depth to	0.88
		organic matter				saturated zone	!
	 	Water erosion	0.99 	saturated zone		  -	
Karlsruhe	   2	  Fair:	i i	  Fair:		  Fair:	
		Low content of					0.50
		organic matter	•				
		Carbonate content			ļ	Hard to reclaim	0.68
	l I	Droughty	0.90	  -		l I	
Mavie	2	Poor:	İ	  Poor:	i	Poor:	
	į	Too sandy					0.00
		Low content of					0.00
	ļ	organic matter	1	:	0.22	•	
	l I	Carbonate content   Water erosion	0.68	•	l I	Rock fragments Carbonate content	
	i			! 	i		
Ulen	2	Fair:	İ	Fair:	İ	Fair:	į
	ļ				0.50	<u>-</u>	0.16
		•	0.50	saturated zone		! -	0.50
	 	organic matter Carbonate content		 	l I	saturated zone Carbonate content	l 10.68
	i	•	0.99	•			
		l		l			
125A:							
Hamar	75 	Poor:   Too sandy	:	Poor:   Depth to	  0.00	Poor:   Too sandy	0.00
	i	<u>-</u>	0.00	! -			0.00
	i	!	0.12		İ	saturated zone	
		organic matter		l			
	1	Droughty	0.83	I	I	I	1

Table 21b.--Construction Materials--Continued

component name	of map	Potential as sourd of reclamation mate		Potential as sou of roadfill	rce	Potential as sou   of topsoil 	rce
	unit   	Rating class and		-		   Rating class and   limiting features	
I25A: Garborg	     10 	Wind erosion	0.00	    Fair:   Depth to	0.12	:	      0.12
	   	Too sandy   	0.45 	saturated zone	   	saturated zone Too sandy	0.45
Rosewood	   7     	-	0.00  0.12 	saturated zone	0.00	Depth to saturated zone	  0.00  0.00    0.88
Venlo	   3     	Too sandy	0.00  0.12 	  Poor:   Depth to   saturated zone 	0.00	  Poor:   Too sandy   Depth to   saturated zone	  0.00  0.00 
Flaming	   2       	Too sandy Wind erosion Low content of organic matter	0.00  0.00  0.12	į	0.88	· -	  0.00  0.88   
Hangaard	   2         	  Poor:   Too sandy   Droughty	i I	  Poor:   Depth to   saturated zone	0.00	Depth to saturated zone	0.03
Kratka	   1     	  Fair:   Low content of   organic matter   Water erosion	0.12 	Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	    0.00   
I26A:	İ	 	i	İ	i	! 	i
Hamerly	75       	Low content of organic matter	0.12    0.68		0.06		  0.06    0.68
Vallers		Low content of organic matter	0.12    0.68	saturated zone Low strength	0.00	saturated zone	    0.00   
Foxhome	   3     	Low content of organic matter	0.12 	:	0.22	  Fair:   Depth to   saturated zone 	    0.88   
Grimstad		Low content of organic matter	0.12	  Fair:   Depth to   saturated zone   Low strength	0.12	saturated zone	  0.12    0.16
	   	Carbonate content	:	į	:	Carbonate content	:

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sou of topsoil	rce
- <u></u>	unit   	'		   Rating class and   limiting features		   Rating class and   limiting features	
I26A: Hamerly, very cobbly		Low content of organic matter	0.12    0.68	saturated zone Low strength	0.06	    Fair:   Depth to   saturated zone   Carbonate content	İ
Strathcona	   3   	Low content of organic matter	0.12    0.92	Low strength	0.00	saturated zone	    0.00   
Roliss, depressional	   1   	Low content of organic matter	0.12 	   Poor:   Depth to   saturated zone   Low strength	0.00 	saturated zone	    0.00   
I27A: Hamre	   80     	Wind erosion   Low content of   organic matter	0.00	   Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	    0.00     
Northwood	   5   	Wind erosion   Low content of   organic matter	0.00 0.12	  Poor:   Depth to   saturated zone   Low strength	0.00 	saturated zone	    0.00     
Roliss	 	!	0.12	  Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	    0.00   
Smiley		Low content of organic matter Carbonate content	0.12 	•	0.00	   Poor:   Depth to   saturated zone   Carbonate content	
Cathro	   3     	Low content of organic matter	0.00	saturated zone Low strength	    0.00    0.22 	saturated zone	    0.00     
Kratka	2       	organic matter	0.12	saturated zone	:	saturated zone	    0.00     
I32A: Hilaire	75 75 	Too sandy	0.00	Shrink-swell	  0.00  0.86  0.88	Depth to saturated zone	  0.00  0.88    0.97

Table 21b.--Construction Materials--Continued

component name		!			rce	Potential as sou   of topsoil 	rce
	unite   	Rating class and			•	Rating class and   limiting features	
	ļ	!	ļ	!		!	ļ
I32A: Espelie	   12	   Dooma		  Poor:		  Poor:	!
Ppheire	12 	Too clayey	!	!	!		0.00
	İ			saturated zone		saturated zone	
	 	organic matter	 		0.00	:	0.00
Huot	 	  Fair:	 	  Poor:		  Fair:	
nuoc		!	!	!	:	!	0.88
	į	organic matter	:		0.86	: -	i
	 	Carbonate content	0.68	Depth to saturated zone	0.88	Rock fragments	0.97
Flaming		   Dooms		  Fair:		  Poor:	
Flaming	<u> </u>	!	!	!	  0.88	!	0.00
	i	<u>-</u>	0.00	! -		:	0.88
	 	Low content of organic matter	0.12	 	į i	saturated zone	į i
	į	!	0.75		į	į	į
Foxlake	   2	  Poor:	 	  Poor:	 	  Poor:	
		Too clayey	0.00	Depth to	0.00	Depth to	0.00
		!	0.12	!	•	saturated zone	
	 	organic matter	! !	!	0.38		0.00
Wheatville	   2	  Fair:	 	  Poor:	 	  Fair:	 
		Low content of	0.12	Low strength	0.00	Depth to	0.06
		organic matter		•	0.06		
	 	•		saturated zone	0.80	Carbonate content	0.32
Thiefriver	   1	  Fair:	 	  Poor:	 	  Poor:	 
	İ	Low content of	0.12	Depth to	0.00	Depth to	0.00
	ļ	organic matter		saturated zone		saturated zone	ļ
	 	Carbonate content 	0.68 	·	0.00  0.82	!	 
Wyandotte	   1	  Fair:	 	  Poor:	 	  Poor:	 
-	i	•		•		1	0.00
		organic matter		saturated zone		saturated zone	
	ļ	:		·	:	:	0.00
	 	Carbonate content	0.92 	Shrink-swell 	0.86 	Too sandy	0.32 
I34A:		<u> </u>	ļ		ļ	<u> </u>	ļ
Huot	75	!	!	Poor:	:	Fair:	
	l I	Low content of organic matter	U • 1 2	!	0.00  0.86	! -	0.88 
	   	Carbonate content	0.68	!	0.88	:	0.97
			<u> </u>	į			
Thiefriver	12	!	:	Poor:	:	Poor:	
	l I	•	0.12 	! -	0.00 	! -	0.00
	¦	Carbonate content	0.68	•	0.00	Bacuraceu Zone	
	i			Shrink-swell	0.82	į	i
Thiefriver	12         	Low content of organic matter	0.12 	Depth to saturated zone Low strength	0.00    0.00	:	

Table 21b.--Construction Materials--Continued

component name		Potential as sourd of reclamation mate		Potential as sou   of roadfill 	rce	Potential as sou of topsoil	rce
	unit   	Rating class and				Rating class and   limiting features	
I34A:	 	 	 	 		 	 
Hilaire	5	Poor:	İ	Poor:	İ	Poor:	j
		<u>-</u>					0.00
	 	Low content of organic matter		:	:	!	0.88
		Organic matter	! !	! -	:	saturated zone   Rock fragments	0.97
Flaming	   3	  Poor:	 	  Fair:	 	  Poor:	 
	į	Too sandy	0.00	Depth to	0.88	Too sandy	0.00
		•	0.00	saturated zone		Depth to	0.88
		•	0.12	•	İ	saturated zone	ļ
	 	organic matter Droughty	  0.75	:		 	 
Foxlake	   3	  Poor:	 	  Poor:		  Poor:	
		1		!	:	:	0.00
	į	•		saturated zone	•	•	İ
	 	organic matter	 	!	0.00  0.38	!	0.00 
Ulen	   2	  Fair:	 	  Fair:		  Fair:	
01011	i	'		!	:	:	0.16
	į		0.50	:	İ	Depth to	0.50
		organic matter	l	[		saturated zone	
	 	Carbonate content   Droughty	0.68  0.99	:		Carbonate content	0.68
136A:	 	 	 	 		 	 
Kittson	70	!	:	Fair:	:	Fair:	
	 		1	Low strength Depth to	•	Depth to   saturated zone	0.88
	l I	organic matter Carbonate content				Carbonate content	
			0.99	:	į		
Roliss	   12	  Fair:	 	  Poor:	 	  Poor:	 
		Low content of	0.12	Depth to	0.00	Depth to	0.00
			1	saturated zone	:	:	ļ
	 	Water erosion 	0.99 	Low strength	0.22	 	 
Hamerly	5	Fair:	ĺ	Fair:	İ	Fair:	İ
							0.06
	 			saturated zone		saturated zone   Carbonate content	   0 60
		Water erosion	0.99	•			
Kratka	   5	•	 	  Poor:		  Poor:	 
		Low content of	•	•	•	•	0.00
	 			saturated zone Low strength		saturated zone	 
Grimstad		İ	į	İ	İ	İ	İ
Grimstad		•			0.12	Fair:   Depth to	  0.12
	i					saturated zone	
	İ	•		Low strength	0.22	Too sandy	0.16
	ļ	Carbonate content	!	!	ļ	Carbonate content	0.92
	 	Water erosion 	0.99 	 	 	 	 
Strandquist	3	Fair:	İ	Poor:	İ	Poor:	į
	I	Low content of	0.12	Depth to	0.00	Depth to	0.00
	:	•		•	i		i
	į	organic matter		saturated zone Low strength		•	İ

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sour	rce
	unit   	Rating class and limiting features	•			   Rating class and   limiting features	•
I36A: Foxhome	İ	Low content of organic matter	0.12	•	0.22	  Fair:   Depth to   saturated zone	      0.88   
I38A: Kratka	   	Low content of	0.12	saturated zone	0.00 	saturated zone	
Smiley	   	Low content of organic matter Carbonate content	0.12	Depth to saturated zone Low strength	İ	Depth to saturated zone	
Foldahl	İ	Too sandy Low content of organic matter	0.00	saturated zone	0.22	:	    0.00  0.88   
Kratka, very cobbly	 	  Fair:   Low content of   organic matter   Water erosion	0.12	Depth to saturated zone	0.00	saturated zone	    0.00   
Strathcona	   	Fair:   Low content of   organic matter   Carbonate content   Water erosion	0.12      0.92	Depth to saturated zone Low strength	0.00 	saturated zone	    0.00     
Kratka, depressional	İ	Wind erosion   Low content of   organic matter	0.00 0.12	Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	    0.00     
Strandquist	   3     	Low content of organic matter	0.12	saturated zone	    0.00    0.22	saturated zone	    0.00   
Linveldt	   2           	Too sandy Low content of organic matter Carbonate content	0.00  0.12 	Depth to saturated zone	0.22	Rock fragments	  0.00  0.50  0.88 
I39A: Linveldt	   65         	Too sandy Low content of organic matter Carbonate content	0.00  0.12 	Depth to saturated zone	0.22	Rock fragments	  0.00  0.50  0.88 

Table 21b.--Construction Materials--Continued

component name	of map	!		•	rce	Potential as sou	rce
	unit   	Rating class and				   Rating class and   limiting features	
I39A: Kratka	i I	  Fair:   Low content of   organic matter   Water erosion	0.12 	saturated zone	0.00 	saturated zone	
Reiner	     	Low content of	0.12      0.97	Low strength Depth to saturated zone	0.88	Depth to saturated zone	i
Smiley	i I	Low content of	0.12      0.92	Depth to saturated zone Low strength	0.00 	saturated zone	
Eckvoll	i I	Too sandy	0.00  0.00  0.12	Low strength Depth to saturated zone	0.88	Too sandy Depth to	    0.00  0.88   
Foldahl	;   	Too sandy Low content of	0.00  0.12 	Low strength Depth to saturated zone	0.88	Too sandy	  0.00  0.88 
Pelan	i	  Fair:   Low content of   organic matter   Water erosion	0.12	Depth to	0.22  0.88	  Fair:   Depth to   saturated zone 	:
I41A: Markey	   80 	  Not rated 		  Poor:   Depth to   saturated zone	0.00	  Not rated   	     
Deerwood	   12       	Too sandy Wind erosion	0.00  0.00  0.12	saturated zone	0.00	Depth to saturated zone	  0.00  0.00    0.28
Berner	   2   	  Not rated   	     	saturated zone	  0.00    0.22	į	     
Hamar	   2         	Wind erosion Low content of organic matter	0.00  0.00  0.12	saturated zone	0.00	<u> </u>	  0.00  0.00     

Table 21b.--Construction Materials--Continued

		Potential as sour of reclamation mate		•	rce	Potential as sou of topsoil	rce
	   			Rating class and   limiting features		Rating class and limiting features	Value
I41A: Seelyeville	     2 	    Not rated   		    Poor:   Depth to   saturated zone	0.00	    Not rated   	     
Syrene	į Į	Low content of organic matter Droughty	0.12    0.17  0.22	saturated zone	0.00	saturated zone Rock fragments	0.00
I42A: Markey, ponded	   85   	  Not rated 		  Poor:   Depth to   saturated zone	0.00	  Not rated   	
Markey	   5   	  Not rated   		  Poor:   Depth to   saturated zone	0.00	  Not rated   	     
Deerwood	į	Too sandy Wind erosion		1	0.00	Depth to saturated zone	  0.00  0.00    0.28
Seelyeville, ponded	   4   	  Not rated   		  Poor:   Depth to   saturated zone	0.00	  Not rated   	     
Hamar	i I	Wind erosion   Low content of   organic matter	0.00  0.00  0.12	į	0.00	:	  0.00  0.00     
Hangaard	   1         	Too sandy Droughty	0.00	  Poor:   Depth to   saturated zone   	0.00	Depth to saturated zone	  0.00  0.00    0.03  0.98
I43A: Mavie	     70	!	:	    Poor:   Depth to		    Poor:   Too sandy	      0.00
	         	Low content of organic matter Carbonate content	0.12	saturated zone Low strength	į	Depth to saturated zone	0.00
Vallers	   	Low content of organic matter Carbonate content	0.12 	saturated zone Low strength	0.00	saturated zone	  0.00   

Table 21b.--Construction Materials--Continued

component name	of map	Potential as sourd of reclamation mate		Potential as sou of roadfill	rce	Potential as sou	rce
	unit   	Rating class and			•	Rating class and limiting features	•
T425							
I43A: Strandquist	   7   	Low content of organic matter	0.12	saturated zone	0.00	saturated zone	    0.00 
	<u> </u>	Water erosion		How screngen		 	i
Strathcona	5       	organic matter Carbonate content	0.12 	saturated zone Low strength	  0.00    0.22 	saturated zone	  0.00     
Strathcona,	l I	 	 	 	 	 	 
depressional	       	Low content of organic matter Carbonate content	0.12	saturated zone Low strength	0.00	saturated zone	  0.00   
Foxhome	   2	  Fair:	 	  Fair:	 	  Fair:	 
	   	organic matter	į	!	0.22  0.88 	<u> </u>	0.88   
Karlsruhe	   2	  Fair:	 	  Fair:	 	  Fair:	l I
	;   	Low content of organic matter	į	saturated zone	:	Depth to saturated zone Hard to reclaim	0.50    0.68
		Droughty	0.90			  -	
Grimstad	   1         	organic matter Too sandy Carbonate content	0.12    0.16	saturated zone Low strength	0.12	saturated zone	  0.12    0.16  0.92
I44A:		 		 		 	i
Newfolden	75       	Low content of organic matter Carbonate content	0.12      0.92	Depth to	0.22  0.88 	saturated zone Carbonate content	  0.88    0.92
	į	İ	į	į	į	ĺ	į
Smiley	12       	Low content of organic matter Carbonate content	0.12 	saturated zone Low strength	0.00 	Poor:   Depth to   saturated zone   Carbonate content 	İ
Boash	   8	  Poor:	 	  Poor:	 	  Poor:	
	     	Too clayey	0.00	Depth to saturated zone	0.00 	Depth to saturated zone	0.00
	 	•		:	0.87		i I

Table 21b.--Construction Materials--Continued

component name		Potential as sourd of reclamation mate		Potential as sou of roadfill	rce	Potential as sou of topsoil	ırce
	unit	Rating class and		Rating class and			
	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<del>!</del>
I44A:	l I	 	 	 		 	!
Linveldt	I I 4	  Poor:	! 	  Fair:	i	  Poor:	i
	i -			!	0.22	!	0.00
	į	Low content of	0.12	Depth to	0.88	Rock fragments	0.50
		organic matter		saturated zone		Depth to	0.88
		Carbonate content		•		saturated zone	1
		Water erosion	0.99				!
Hapludolls	   1	  Paire	 	  Good		  Fair:	!
napiudoiis	:	!	  0.12	!		Slope	0.37
	i	organic matter		! 	i		
	į	İ	i	İ	i	İ	i
I45A:							
Northwood	75	!		Poor:	,	Poor:	!
		!		Depth to	,		0.00
	l I	!	!	saturated zone Low strength	0.22	saturated zone	!
	l I	:	  0.99	:	U . Z Z	 	1
	! 			! 	i	! 	i
Hamre	10	Poor:	i	Poor:	i	Poor:	i
	İ	Wind erosion	0.00	Depth to	0.00	Depth to	0.00
				saturated zone		saturated zone	1
		organic matter	:	!	0.22		İ
		Water erosion	0.99				!
Berner	 	  Not rated	 	  Poor:		  Not rated	!
Delliel	]			Depth to			i
	i		i	saturated zone	:		i
	į	İ	i	Low strength	:	İ	i
	ĺ	İ	ĺ	İ	Ì	İ	İ
Kratka	5	!	!	Poor:	:	Poor:	!
		Low content of	:	! -	:	Depth to	0.00
	 	:	1	saturated zone Low strength	0.22	:	1
	 	water erosion	0 . 3 3 	now screngen	0.22	 	i
Strandquist	3	  Fair:	i	Poor:	İ	Poor:	i
	İ	Low content of	0.12	Depth to	0.00	Depth to	0.00
		organic matter	l	saturated zone		saturated zone	1
		Water erosion	0.99	Low strength	0.22		İ
Roliss		 				  Poor:	!
ROIISS	<u>4</u> 	Fair:   Low content of	!	Poor:   Depth to	1	Depth to	0.00
	! 	organic matter		saturated zone		saturated zone	1
	į	•		!	0.22	İ	i
I46A:		<u> </u>	!	<u> </u>		<u> </u>	!
Pits	85	Not rated		Not rated		Not rated	!
Udipsamments	   10	  Poor:	l I	  Poor:	l i	  Poor:	-
odipsammencs	<del>1</del> 0		0.00	!	0.00	!	0.00
	i		0.00		İ	Slope	0.00
	ĺ	Low content of	0.02	İ	ĺ	İ	İ
	!	organic matter	[	!	ļ	!	İ
		Droughty	0.86		ļ		İ
Dadium	^	   Dooma		  Cood		   Dooma	I
Radium	ı ∠ I	Poor:   Too sandy	  0.00	Good 	I I	Poor:   Too sandy	0.00
	i I	<u>-</u>	0.00	! 		Rock fragments	0.50
	i	!	0.12	i I	i		
	i	organic matter	i	İ	į	İ	i
		:	0.82				1
	I	I	I	İ	I	l	1

Table 21b.--Construction Materials--Continued

component name	map	of reclamation mat		Potential as sou of roadfill	rce	Potential as sou of topsoil	ırce
	unit 		•	Rating class and   limiting features		Rating class and   limiting features	Value
	<u> </u>	IIMICING Teacures	1	IIMICING Leacures	1	IIMICING LEACULES	1
I46A:	i	 	i	 	i	 	i
Maddock	1	Poor:	i	Good	i	Poor:	i
	İ	Too sandy	0.00	İ	İ	Too sandy	0.00
		Wind erosion	0.00				1
		Low content of	0.12	I		I	1
		organic matter					1
		Droughty	0.65	!		!	
Variable	1	   Danes		  a==4		   Danie	
Marquette	ļ 1	Poor:		Good	!	Poor:	
	!	Wind erosion	0.00		!	Rock fragments Hard to reclaim	0.00
	!	Droughty	0.01	!	!	Hard to reclaim	10.02
	 	Low content of organic matter	0.12	 		 	-
		Organic maccer	i	 	i	 	1
Sandberg	1	Poor:	i	Good	i	Fair:	i
_	i	Wind erosion	0.00	İ	i	Rock fragments	0.12
	İ	Low content of	0.12	İ	İ	Too sandy	0.47
	İ	organic matter	İ	İ	İ	Hard to reclaim	0.92
	İ	Droughty	0.14	İ	İ	İ	İ
		Too sandy	0.47	!		!	
T 473 -		 					
I47A: Poppleton	   75	  Poor:		  Fair:		  Poor:	-
roppiecon	/3	Too sandy	•	Depth to	0.88	!	0.00
	i	Wind erosion	0.00		1	Depth to	0.88
	i	Low content of	0.12	!	i	saturated zone	1
	i	organic matter		! 	i		i
	i	Droughty	0.81	 	i	 	i
	ĺ	İ	İ	İ	İ	İ	İ
Flaming	12		•	Fair:	•	Poor:	1
		Too sandy	1	Depth to	0.88	<u>-</u>	0.00
		Wind erosion	0.00	!		Depth to	0.88
		Low content of	0.12			saturated zone	!
	ļ	organic matter				1	!
	 	Droughty	0.75	l I		 	!
Garborg	l I5	Poor:	i	  Fair:	i	  Fair:	1
	i	Wind erosion	0.00	•	0.12	!	0.12
	i	Too sandy	0.45	! -	i	saturated zone	i
	į	İ	İ	İ	į	Too sandy	0.45
	ļ			!		[	ļ
Hamar	3	Poor:		Poor:	•	Poor:	
	ļ	Too sandy	0.00		0.00		0.00
	!	Wind erosion	0.00	!	!	Depth to	0.00
	!	Low content of	0.12		!	saturated zone	!
		organic matter	  0.83	 	1	 	
		Droughty 	10.03	I 		1 	
Radium	2	Poor:	i	  Good	i	Poor:	i
	İ	Too sandy	0.00	İ	İ	Too sandy	0.00
	İ	Wind erosion	0.00	İ	İ	Rock fragments	0.50
	İ	Low content of	0.12	İ	İ	İ	İ
	İ	organic matter	İ	İ	İ	İ	İ
	İ	Droughty	0.82	İ	İ	İ	İ
	1	I	1	ı	1	ı	1

Table 21b.--Construction Materials--Continued

component name		•		Potential as sou of roadfill	irce	Potential as sou	rce
	unit   	Rating class and				Rating class and limiting features	
I47A:	 	 	 			 	 
Ulen	2	Poor:	i	  Fair:	i	  Fair:	i
	i	Wind erosion	0.00	Depth to	0.50	Too sandy	0.16
	į	Too sandy	0.16	saturated zone	į	Depth to	0.50
	İ	Low content of	0.50	ĺ	İ	saturated zone	ĺ
		organic matter				Carbonate content	0.68
		Carbonate content	0.68				
	ļ	Droughty	0.93		ļ		ļ
Maddock		   Daam :				   Daam :	
maddock	+	Poor:   Too sandy	  0.00	Good	-	Poor:   Too sandy	10.00
	!	<u>-</u>	0.00	 		100 sandy 	10.00
	¦	!	0.12	! 	1	 	
	i	organic matter		İ	i		i
	i	Droughty	0.65	į	i		i
	į	İ	į	İ	į	İ	j
I48A:			l				
Radium	75	Poor:	!	Good	1	Poor:	
	ļ		0.00		!	<u>-</u>	0.00
	!	!	0.00		!	Rock fragments	0.50
	!	Low content of organic matter	0.12	1		 	!
	!		  0.82	 		 	¦
	i			! 	i	! 	i
Sandberg	7	Poor:	i	Good	i	  Fair:	i
_	i	Wind erosion	0.00	j	i	Rock fragments	0.12
	İ	Low content of	0.12	ĺ	İ	Too sandy	0.47
		organic matter				Hard to reclaim	0.92
			0.14				
	ļ	Too sandy	0.47		ļ		
Oylen		   Daama		  a_a_a	!	   Danes	
Oylen	] 3	Poor:   Too sandy	  0.00	Good	-	Poor:   Too sandy	0.00
	¦	<u>-</u>	0.12		1	_	0.88
	i	organic matter		İ	i		
	į		į	j	į		į
Flaming	4	Poor:		Fair:	1	Poor:	
		Too sandy	0.00	Depth to	0.88	Too sandy	0.00
	ļ	!	0.00	!	!	-	0.88
		!	0.12		!	saturated zone	
		organic matter	  0.75	l I		 	
		Droughty 	0 . 7 3 	 	i	 	
Garborg	3	Poor:	i	Fair:	i	  Fair:	i
<b>3</b>	:	•		Depth to		•	0.12
	ĺ	Too sandy	0.45	saturated zone	İ	saturated zone	ĺ
						Too sandy	0.45
		_			ļ	  -	
Hangaard	3	Poor:		Poor:		Poor:	
	!			Depth to saturated zone		= -	0.00
		Droughty Low content of			1	Depth to saturated zone	0.00
		organic matter	:	! 	1	Rock fragments	:
	i		i	İ	i	Hard to reclaim	
	İ		İ	İ	ĺ		İ
Hamar	2	Poor:		Poor:		Poor:	
		<u>-</u>	:	Depth to		_	0.00
	ļ	!	0.00		ļ	-	0.00
			0.12		1	saturated zone	
	I I	organic matter Droughty	  0.83	I I	1	 	I I
	1	I DIOUGIICY	10.03	1	1	i	I

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sout	rce
	unit   		•	   Rating class and   limiting features		   Rating class and   limiting features	
I48A: Poppleton	     1     	Too sandy Wind erosion Low content of organic matter	0.00  0.00  0.12	 	0.88	<u>-</u>	      0.00  0.88   
I50A: Reiner	     70       	Low content of organic matter Carbonate content	0.12 	Depth to saturated zone	0.22	  Fair:   Depth to   saturated zone   Carbonate content 	į
Smiley	   12       	Low content of organic matter Carbonate content	0.12 	saturated zone	0.00	Poor:   Depth to   saturated zone   Carbonate content	İ
Reiner, very cobbly		Low content of organic matter Carbonate content	0.12 	Depth to saturated zone	0.22	  Fair:   Depth to   saturated zone   Carbonate content	į
Linveldt	   5       	Too sandy Low content of organic matter Carbonate content	0.00  0.12 	Depth to saturated zone	0.22	Rock fragments	  0.00  0.50  0.88 
Eckvoll	   3       	Too sandy Wind erosion Low content of organic matter	0.00  0.00  0.12	Depth to saturated zone	0.22	!	    0.00  0.88   
Kratka	   3     	  Fair:   Low content of   organic matter   Water erosion 	0.12 	saturated zone	0.00	saturated zone	    0.00     
I51A: Reiner	   65         	Wind erosion Low content of organic matter Carbonate content	0.00  0.12 	Depth to   saturated zone	0.22	  Fair:   Depth to   saturated zone   Carbonate content 	İ
Smiley	:	Low content of organic matter Carbonate content	0.12 	saturated zone	0.00	  Poor:   Depth to   saturated zone   Carbonate content 	

Table 21b.--Construction Materials--Continued

component name	of map	!		•	rce	Potential as sou of topsoil	rce
	unit   		:	   Rating class and   limiting features		Rating class and	
I51A:	 	 	 	 		 	
Reiner fine sandy	l I	 	! !	 		 	1
loam	l I 8	  Fair:	İ	  Fair:		  Fair:	i
	i	Low content of	!	!	:	!	0.88
	į	organic matter	İ	Depth to	0.88	saturated zone	İ
		Carbonate content	0.97	saturated zone		Carbonate content	0.97
		Water erosion	0.99				1
- 1 - 2 2 .			ļ	 			!
Linveldt	7				:	Poor:	
	 	Too sandy	:		:	<u>-</u>	0.00
	 	Low content of		saturated zone		-	0.50
	! 	Carbonate content	1		:	saturated zone	:
	i	!	0.99	!	i		i
	į	İ	İ	İ	į į		İ
Kratka	5	Fair:	ĺ	Poor:	İ	Poor:	İ
		Low content of	0.12	Depth to	0.00	Depth to	0.00
	!		:	saturated zone	:	saturated zone	!
		Water erosion	0.99	Low strength	0.22		!
Eckvoll		   Daam :		   Tarker:		   Daam :	!
ECKAOII	3 		!	Fair:   Low strength	:	Poor:   Too sandy	10.00
	l I	<u>-</u>	:		:	_	0.88
i	! 			saturated zone		saturated zone	1
	i	organic matter	•		i		i
	į		0.99	İ	į į		İ
Reiner, very cobbly	3	!	!	Fair:		Fair:	1
		'		•	1	-	0.88
		organic matter	•	•		saturated zone	•
	 		0.97	saturated zone		Carbonate content	10.97
	l I	water erosion	0 . 3 3 	 		 	1
I52A:	! 	! 	<u> </u>	! 	i i	 	i
Reis	55	Poor:	i	Poor:	i i	Poor:	i
j	ĺ	Too clayey	0.00	Depth to	0.00	Too clayey	0.00
		Low content of	0.12	saturated zone		Depth to	0.00
	!	organic matter	1			saturated zone	•
		Carbonate content	0.68	Shrink-swell	0.12	Carbonate content	0.68
Clearwater	I I 30	l Poor:	l I	  Poor:		  Poor:	
Clear water	30 	!	0.00	!	0.00	!	0.00
	i	•	0.12	•		saturated zone	
İ	İ	organic matter	İ	Low strength	0.00	Too clayey	0.00
				Shrink-swell	0.12		
	!		!				!
Clearwater, very	_		ļ				!
cobbly	5 	Poor:	:	Poor:	:	Poor:	10.00
	 		0.00  0.12	<u> </u>	0.00	Depth to saturated zone	0.00
	i	organic matter		Low strength	0.00		0.00
	i		i	Shrink-swell	0.12		
	İ		i		į		i
Clearwater,	İ		İ		į		İ
depressional	3	Poor:	I	Poor:		Poor:	
			0.00	<u> </u>	0.00	-	0.00
		Low content of	0.12	saturated zone	[	saturated zone	1
	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
		organic matter	 	Low strength Shrink-swell	0.00	Too clayey	0.00

Table 21b.--Construction Materials--Continued

component name	of map	!		Potential as sou of roadfill	rce	Potential as sou of topsoil	rce
	unit   		•	Rating class and limiting features	•	Rating class and limiting features	
I52A: Espelie	   3	  Poor:	 	  Poor:	 	  Poor:	
		!	!	Depth to	!	!	0.00
	ĺ	•		saturated zone	•	•	
	 	organic matter	:		0.00  0.57		0.00
Hattie	   3	Poor	 	  Poor:	l I	  Poor:	
naccie		!	!	!	!	Too clayey	0.00
	į		•		:	Depth to	0.65
	 	organic matter	 	Depth to saturated zone	0.65 	saturated zone	 
Wyandotte	   1	  Paire	 	  Poor:		  Poor:	
wyandocce	+	!	!	!	!	!	0.00
	i	'	•	saturated zone	•	saturated zone	:
		Too sandy	0.32	Low strength	0.00	Rock fragments	0.00
		Carbonate content	0.92	Shrink-swell	0.86	Too sandy	0.32
I53A:	l I	 	l I	 		[ [	
Roliss	75	  Fair:	<u> </u>	Poor:	i	Poor:	i
	ĺ	•				Depth to	0.00
		organic matter	:	saturated zone	!	saturated zone	ļ
	 	Water erosion	0.99 	Low strength	0.22	 	
Kratka	8	  Fair:	<u> </u>	Poor:	i	Poor:	i
	ĺ	Low content of	0.12	Depth to	0.00	Depth to	0.00
				saturated zone	:	saturated zone	
	l I	Water erosion 	0.99 	Low strength	0.22	 	
Roliss, very cobbly	7	Fair:	İ	Poor:	i	Poor:	i
	ļ	•		Depth to	:	_	0.00
		organic matter Water erosion	•	saturated zone Low strength	0.22	saturated zone	
	 	water erosion	0.99 	Low strength	0.22	 	
Kittson	5	Fair:	İ	Fair:	i	Fair:	i
		1	•	•			0.88
	 	organic matter Carbonate content	:	<u> </u>	1	saturated zone Carbonate content	1
	i	!	0.99	!	i		
	ļ		ļ	!	ļ.		!
Roliss, depressional	3	•	•	Poor:   Depth to		Poor:   Depth to	10.00
	 	organic matter	:	saturated zone	0.00	saturated zone	10.00
	į		:		0.22	!	į
Smiley		  Fair:	 	  Poor:		  Poor:	
DMIICY	i -	!	!	!	:	Depth to	0.00
	į	organic matter	:	saturated zone	İ	saturated zone	į
		Carbonate content	:		0.22	Carbonate content	0.92
	 	Water erosion 	0.99 	 	 	[ [	
I54A:		 		 		 	
Roliss, depressional	80	•		Poor:	İ	Poor:	İ
			0.12	<u> </u>	0.00	_	0.00
	 	organic matter Water erosion	  n aa	saturated zone Low strength	0.22	saturated zone	
	!	Hacer erosion		I now perenden		! :	1

Table 21b.--Construction Materials--Continued

component name	map	of reclamation mat		Potential as sou of roadfill	rce	Potential as sou	rce
	unit   	'	!	   Rating class and   limiting features		   Rating class and   limiting features	
	<del>                                     </del>		l		1		
I54A:	į	İ	İ	İ	İ	j	j
Roliss	12	!	!	Poor:	:	Poor:	
	ļ	!		Depth to			0.00
		organic matter Water erosion		saturated zone Low strength	:	saturated zone	!
		water erosion	0.99 	Low strength	0.22	 	
Hamre	l I 5	Poor:	i i	  Poor:	i	  Poor:	i
	i	!	0.00	Depth to	0.00	Depth to	0.00
	į	Low content of	0.12	saturated zone	İ	saturated zone	į
		organic matter		Low strength	0.22		
	ļ	Water erosion	0.99		İ		ļ
Translation		 			!	 	!
Kratka	3	Fair:   Low content of		Poor:   Depth to		Poor:   Depth to	10.00
	l	organic matter		saturated zone	:	saturated zone	1
	i	•		!	0.22	!	i
	į	İ	İ	j	İ	İ	İ
I55A:			l				
Rosewood	75	!	!	Poor:	:	Poor:	
	!				0.00	!	0.00
		Low content of organic matter	0.12	saturated zone		Depth to saturated zone	0.00
	 	Carbonate content	I I 0 . 68	 		!	0.88
	i			! 	i	Room Tragments	
Ulen	10	  Fair:	i	  Fair:	i	  Fair:	i
	į	Too sandy	0.16	Depth to	0.50	Too sandy	0.16
		Low content of	0.50	saturated zone		Depth to	0.50
	ļ	organic matter			İ	saturated zone	:
		Carbonate content	!	!		Carbonate content	0.68
	 	Droughty	0.99 	 		 	
Hamar	l I 6	  Poor:	! 	  Poor:	1	  Poor:	ŀ
		•		•		!	0.00
	i	:	1	saturated zone	:	<u> </u>	0.00
	ĺ	Low content of	0.12	İ	İ	saturated zone	ĺ
		organic matter	!	<u> </u>	1		
	!	Droughty	0.83		!		!
Rosewood,		l I	 	l I	!	 	
depressional	3	  Poor:	i i	Poor:	i	Poor:	i
	i			Depth to	0.00		0.00
	į	Low content of	0.12	saturated zone	į	Depth to	0.00
		organic matter				saturated zone	
	ļ	Carbonate content	0.68		ļ	Rock fragments	0.88
Crmono		  Enima		   Dooma		   Dooma	
Syrene	3	Fair:   Low content of	  0.12	Poor:   Depth to	10.00	Poor:   Depth to	10.00
	i	organic matter		saturated zone	1	saturated zone	
	į	!	0.17	!	i	!	0.00
		Too sandy	0.22	l		Too sandy	0.22
	ļ	Carbonate content	0.68	ļ	İ	Hard to reclaim	0.68
			ļ		!		
Karlsruhe	1	Fair:	:	Fair:	:	Fair:	
		Low content of organic matter	0.12 	Depth to saturated zone	0.50 	Depth to saturated zone	0.50 
	l	Carbonate content	0.68	!	i	!	0.68
	i	!	0.90	į	i		
	I	I	I	I	I	I	ı

Table 21b.--Construction Materials--Continued

component name	of map	Potential as sour		Potential as sou of roadfill	rce	Potential as sou of topsoil	ırce
	unit   	Rating class and		   Rating class and   limiting features		-	
I55A:	 	 	 	 	 	 	 
Strathcona	   1	  Fair:	i	Poor:	i	Poor:	i
	į	Low content of	0.12	Depth to	0.00	Depth to	0.00
		organic matter		saturated zone		saturated zone	
		1	0.92  0.99	1	0.22		
	 	water erosion	0 . 9 9 	 		 	1
Thiefriver	1	  Fair:	i	Poor:	İ	Poor:	i
		Low content of	0.12	Depth to	0.00	Depth to	0.00
		organic matter		saturated zone		saturated zone	!
		Carbonate content	0.68	· -	0.00	!	
	l I	 	 	Shrink-swell	0.82 	[ [	
I57B:	i		<u> </u>	İ	i		i
Sandberg	50	'	!	Good	ļ	Fair:	1
		!	0.00	!		Rock fragments	0.12
	 	Low content of organic matter	0.12	 		Too sandy Hard to reclaim	0.47
	 		  0.14	 		Hard to rectain	10.32
	İ	!	0.47	!	İ		i
	İ	İ	İ	İ	İ	İ	İ
Radium	25	Poor:	!	Good		Poor:	1
		<u>-</u>	0.00			Too sandy	0.00
	 		0.00  0.12	:	l i	Rock fragments	0.50
	 	organic matter		 	i	 	1
	i		0.82	İ	i		i
			ļ.		ļ		İ
Sioux	8 	Poor:   Too sandy	  0.00	Good		Poor:   Too sandy	10.00
	l I	<u>-</u>	0.10	!		Rock fragments	0.00
	i		0.12		i	Hard to reclaim	
	İ	organic matter	İ	İ	į		İ
Ovlen		  Poor:		  Good		  Poor:	
Oylen	' 	!	  0.00	!		Too sandy	10.00
	İ	-	0.12	1	İ	Rock fragments	0.88
	İ	organic matter	İ	İ			į
Flaming		  Poor:		  Fair:		  Poor:	
riaming	3 	1		Depth to	,	Too sandy	10.00
	i			saturated zone		Depth to	0.88
	į	Low content of	0.12	j	İ	saturated zone	į
		organic matter		<u> </u>			1
	 	Droughty	0.75 	 		 	1
Garborg	l   5	Poor:	i İ	  Fair:	İ	  Fair:	i
-		Wind erosion					0.12
		Too sandy	0.45	saturated zone		saturated zone	
		 				Too sandy	0.45
I58A:	I I	 	I I	I 	 	[ [	
Seelyeville	90	  Not rated	i	Poor:	İ	Not rated	i
				Depth to			
				saturated zone			
	   3	  Poor:	[ [	  Poor:	 	  Poor:	 
Cathro						Depth to	0.00
Cathro	l	WILLIA CLODIOL					
Cathro		Low content of	0.12	saturated zone		saturated zone	
Cathro	 	Low content of organic matter	0.12	saturated zone Low strength		saturated zone	

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sou of topsoil	rce
	unit   	Rating class and	•	•		   Rating class and   limiting features	•
I58A: Dora	     3   	    Not rated     	   		0.00    0.00		         
Markey	     3 	    Not rated   	 	Shrink-swell    Poor:   Depth to   saturated zone	0.00	    Not rated	       
Berner	   1   	  Not rated     	 	   Poor:   Depth to   saturated zone   Low strength	    0.00 	İ	       
I59A: Smiley	 	  Fair:   Low content of   organic matter   Carbonate content   Water erosion	0.12    0.92	saturated zone Low strength	0.00 	saturated zone	İ
Smiley, very cobbly	•	  Fair:   Low content of   organic matter	    0.12    0.92	  Poor:   Depth to   saturated zone   Low strength	0.00 	   Poor:   Depth to   saturated zone   Carbonate content	İ
Kratka	i I	  Fair:   Low content of   organic matter   Water erosion	0.12 	saturated zone	0.00 	saturated zone	    0.00   
Roliss	;   	Low content of	0.12	Depth to saturated zone		Depth to saturated zone	    0.00   
Reiner	   4       	Low content of organic matter Carbonate content	0.12 	Depth to saturated zone	1	· -	:
Linveldt	   3         	Low content of organic matter Carbonate content	0.00  0.12 	Depth to saturated zone	0.22	-	  0.00  0.50  0.88 
Smiley, depressional	   3       	organic matter Carbonate content	0.12	saturated zone Low strength	0.00	  Poor:   Depth to   saturated zone   Carbonate content	  0.00    0.92

Table 21b.--Construction Materials--Continued

component name					rce	Potential as sou of topsoil	rce
		Rating class and	•	•		Rating class and limiting features	
I59A: Strandquist	i I	  Fair:   Low content of   organic matter   Water erosion	0.12 	saturated zone	0.00 	saturated zone	
I60A: Smiley, depressional	 	Low content of	0.12    0.92	saturated zone Low strength	0.00 	saturated zone	İ
Smiley	   	  Fair:   Low content of   organic matter   Carbonate content   Water erosion	0.12    0.92	saturated zone Low strength	0.00 	saturated zone	İ
Hamre	   	Wind erosion   Low content of	0.00  0.12 	saturated zone Low strength	0.00	saturated zone	
Kratka	i I	  Fair:   Low content of   organic matter   Water erosion 	0.12 	saturated zone	0.00 	saturated zone	•
I61A: Strandquist	 	  Fair:   Low content of   organic matter   Water erosion	0.12	Depth to saturated zone	İ	Depth to saturated zone	
Mavie	   	Too sandy Low content of organic matter Carbonate content	0.00  0.12 	Depth to saturated zone Low strength	0.22	Too sandy Depth to saturated zone	0.00
Roliss		Low content of	0.12 	saturated zone	0.00	saturated zone	    0.00   
Kratka	   	  Fair:   Low content of   organic matter   Water erosion	0.12	saturated zone	0.00	saturated zone	    0.00   
Foxhome		Low content of organic matter	0.12	,	0.22	  Fair:   Depth to   saturated zone 	    0.88   

Table 21b.--Construction Materials--Continued

component name	of	Potential as source of reclamation mate		•	rce	Potential as sou of topsoil	ırce
	map	!		<u> </u>			
	unit						
				Rating class and			
	<u> </u>	limiting features		limiting features	ļ	limiting features	
T.C.1.3					ļ		!
I61A: Hangaard	 	Dooma	 	  Poor:		  Poor:	!
nangaard	l 3	!	!	!	10.00	!	10.00
	l I	<u>-</u>	0.09	! -	10.00	Depth to	0.00
	! 	!	0.12		l	saturated zone	1
	<u> </u>	organic matter		! 	i	Rock fragments	0.03
	i		i		i	Hard to reclaim	
	İ	İ	İ	İ	İ	İ	i
Northwood	3	Poor:	ĺ	Poor:	ĺ	Poor:	İ
		Wind erosion	0.00	Depth to	0.00	Depth to	0.00
		Low content of	0.12	saturated zone		saturated zone	
		organic matter		Low strength	0.22		
	!	Water erosion	0.99	<u> </u>			
	!		ļ		!		İ
I62A:			I	   Paama	l	   Pa a m :	I
Syrene	70 			Poor:   Depth to	!	Poor:   Depth to	10.00
	 	organic matter	:	saturated zone	!	saturated zone	10.00
	l I		  0.17	!	,	Rock fragments	0.00
	 	!	0.22	!	¦	Too sandy	0.22
	<u> </u>	Carbonate content			i	Hard to reclaim	
	i				i		
Rosewood	11	Poor:	i	Poor:	i	Poor:	i
	İ	Too sandy	0.00	Depth to	0.00	Too sandy	0.00
	ĺ	Low content of	0.12	saturated zone	ĺ	Depth to	0.00
		organic matter				saturated zone	
		Carbonate content	0.68			Rock fragments	0.88
	!		!	<u> </u>		<u> </u>	
Hangaard	5			Poor:	,	Poor:	
		-	:	! -	0.00	<u>.                                      </u>	0.00
	 	!	0.09	!	!	Depth to	0.00
	 	Low content of organic matter	0.12	 	l I	saturated zone Rock fragments	0.03
	l I	Organic maccer	l I	 		Hard to reclaim	
	 	<u> </u> 	! 	! 	i	Hara co recraim	1
Karlsruhe	   4	  Fair:	İ	  Fair:	i	  Fair:	i
	İ	Low content of	0.12	Depth to	0.50	Depth to	0.50
	İ	organic matter	İ	saturated zone	İ	saturated zone	i
	ĺ	Carbonate content	0.68	İ	ĺ	Hard to reclaim	0.68
		Droughty	0.90				
Deerwood	3	Poor:		Poor:	1	Poor:	
		•	•		0.00		0.00
		1	0.00			Depth to	0.00
		!	0.12	 		saturated zone	10.00
	 	organic matter	l I	 	l I	Rock fragments	0.28
Hamar	   3	Poor:	İ	Poor:		Poor:	1
	i	!	:	!	0.00	!	0.00
	i	-	0.00			Depth to	0.00
	İ	!	0.12	!	i	saturated zone	i
	İ	organic matter	İ	İ	İ	İ	İ
		Droughty	0.83				1
			l	[			
Strandquist	2	Fair:	:	Poor:	:	Poor:	
	ļ	!	0.12	Depth to	0.00	<u> </u>	0.00
	!	organic matter		saturated zone		saturated zone	İ
	1	Water erosion	10.99	Low strength	0.22	I	1

Table 21b.--Construction Materials--Continued

component name		Potential as sour of reclamation mate		Potential as sou of roadfill	rce	Potential as sou of topsoil	rce
	   	'		Rating class and   limiting features		Rating class and   limiting features	
I62A: Radium	     1   	Wind erosion	      0.00  0.00  0.12	į	         	  Poor:   Too sandy   Rock fragments	      0.00  0.50
	   	İ	0.82	į		  -  -	   
Wyandotte	±       	Low content of organic matter Too sandy	0.12    0.32	saturated zone Low strength	0.00	Poor:   Depth to   saturated zone   Rock fragments   Too sandy	  0.00    0.00  0.32
I63A: Thiefriver	     70 	Low content of organic matter	0.12 	saturated zone	0.00	  Poor:   Depth to   saturated zone	      0.00
Espelie	     10     	Too clayey	      0.00  0.12	Shrink-swell    Poor:   Depth to   saturated zone   Low strength	0.00	  Poor:   Depth to   saturated zone   Too clayey	        0.00
Foxlake	   7     	•	0.00	  Poor:   Depth to   saturated zone   Low strength	0.00	  Poor:   Depth to   saturated zone   Too clayey	      0.00    0.00
Huot	:	  Fair:   Low content of   organic matter   Carbonate content	0.12 	Shrink-swell	0.00	  Fair:   Depth to   saturated zone   Rock fragments	    0.88    0.97
Clearwater, depressional	   3   1 	•		  Poor:   Depth to   saturated zone   Low strength   Shrink-swell	    0.00    0.00  0.12	saturated zone Too clayey	      0.00    0.00
Rosewood	   3     		0.00  0.12 	saturated zone	    0.00     	  Poor:   Too sandy   Depth to   saturated zone   Rock fragments	  0.00  0.00    0.88
Ulen	   1         	Low content of organic matter Carbonate content	0.16  0.50 	saturated zone	    0.50       	  Fair:   Too sandy   Depth to   saturated zone   Carbonate content	  0.16  0.50    0.68

Table 21b.--Construction Materials--Continued

component name	Pct.   Potential as source   of   of reclamation material   map			Potential as sou   of roadfill 	rce	Potential as source of topsoil		
	   			Rating class and   limiting features	•	Rating class and   limiting features		
I63A: Wyandotte	     1     	Low content of organic matter	0.12    0.32	saturated zone Low strength	0.00	saturated zone Rock fragments	    0.00    0.00  0.32	
I64A:	 	 	 	 	 	 	 	
Ulen	70         	Too sandy Low content of organic matter Carbonate content	0.16  0.50	saturated zone	  0.50       	<u> </u>	!	
Rosewood	   10     	Too sandy	0.00  0.12 	saturated zone	    0.00   	Depth to saturated zone	  0.00  0.00    0.88	
Flaming	   8       	Wind erosion Low content of organic matter	:	saturated zone	0.88	:	    0.00  0.88   	
Karlsruhe	   5     	organic matter Carbonate content	0.12 	saturated zone	!	  Fair:   Depth to   saturated zone   Hard to reclaim	    0.50    0.68	
Radium	   3       	Wind erosion   Low content of   organic matter	  0.00  0.00  0.12 	 	         	:	    0.00  0.50 	
Strathcona	   2     	organic matter Carbonate content	0.12	saturated zone	0.00	saturated zone	    0.00     	
Thiefriver	   2       	'	0.12	saturated zone Low strength	0.00	saturated zone	    0.00       	
I65A: Ulen	   70             	Wind erosion Too sandy Low content of organic matter Carbonate content	0.00  0.16  0.50	saturated zone	:	:	  0.16  0.50    0.68 	

Table 21b.--Construction Materials--Continued

		Potential as sour of reclamation mate		Potential as sou of roadfill	rce	Potential as sou of topsoil	ırce
	   		•	Rating class and   limiting features	•		
	ļ		ļ	!	ļ		ļ
I65A: Rosewood	   10	  Boore		  Poor:		  Poor:	!
Nobewood	1	•		Depth to		•	0.00
	i	Low content of			2	Depth to	0.00
	į	organic matter	į	j	į	saturated zone	İ
	İ	Carbonate content	0.68	İ	İ	Rock fragments	0.88
Flaming		  Poor:		  Enima		  Poor:	
riaming	º	1	•	Fair:   Depth to		•	10.00
	¦			saturated zone	-	Depth to	0.88
	i	!	0.12		i	saturated zone	
	i	organic matter	i	İ	i		i
	İ		0.75	İ	İ	İ	İ
			ļ		ļ		ļ
Poppleton	4			Fair:		Poor:	
				Depth to saturated zone		Too sandy Depth to	0.00
	 	!	0.12			saturated zone	10.00
	i	organic matter		•	i		i
	į	•	0.81	•	i	İ	i
	ļ		ļ	<u> </u>	ļ.		ļ
Karlsruhe	:	Fair:	•	Fair:		Fair:	
			:	:	:	Depth to	0.50
	!	organic matter Carbonate content	:	:		saturated zone Hard to reclaim	
	i	!	0.90			Hard to recraim	
	į	İ	İ	İ	į	İ	į
Radium	3	!			ļ	Poor:	
		<u>-</u>	0.00	!	!	Too sandy	0.00
		!	0.00  0.12			Rock fragments	0.50
	 	organic matter		 		 	1
	i		0.82		i		i
	ļ			ļ	ļ.	!	ļ
Strathcona		Fair:		Poor:		Poor:	
		Low content of				Depth to saturated zone	0.00
	 	organic matter Carbonate content			0.22	!	1
	i	Water erosion		•		! 	i
	į	İ	İ	j	į	İ	İ
Thiefriver	2	Fair:	!	Poor:	!	Poor:	1
	ļ		:	:	0.00	Depth to	0.00
		•	•	saturated zone		saturated zone	!
		Carbonate content	0.68 		0.00	!	
	į	İ	į	j	i	İ	i
I66A:		l mada		l Parasa		l Danier	
Vallers	75 			Poor:		Poor:	10.00
		organic matter		Depth to		Depth to   saturated zone	0.00
		•	•	saturated zone Low strength	0.22	!	1
			0.99	:			i
	ļ		ļ	!	ļ		ļ
Vallers, very cobbly	7	•	•	Poor:	•	Poor:	10.00
	I I	Low content of organic matter	•	Depth to saturated zone		Depth to   saturated zone	0.00
			:	:	0.22	!	i
	i		0.99	:		i İ	i
	i		i	i	i		:

Table 21b.--Construction Materials--Continued

component name		!		•	rce	Potential as sou of topsoil	rce
		Rating class and				Rating class and   limiting features	
I66A:	 	 	 	 	 	 	 
Hamerly	6	Fair:	İ	Fair:	İ	Fair:	j
		Low content of		•	•	•	
	!			•		saturated zone	
	:	Carbonate content Water erosion	0.68		0.22	Carbonate content 	0.68
Grimstad	3	  Fair:	 	  Fair:		  Fair:	
GI IIIIS CAU		Low content of		•		•	0.12
	i	•		•		saturated zone	
	i	•		•	•	Too sandy	
	İ	Carbonate content	0.92	ĺ	İ	Carbonate content	0.92
		Water erosion	0.99 	 		 	
Mavie	3	•		Poor:		Poor:	
	ļ			•			0.00
		Low content of		•		•	0.00
	i i	Carbonate content	:	:		saturated zone Rock fragments	
	ļ	Water erosion		1	į	Carbonate content	!
Roliss, depressional	   3	  Fair:	 	  Poor:	 	  Poor:	 
_	į	Low content of		•	0.00	Depth to	0.00
						saturated zone	
		Water erosion	0.99 	Low strength	0.22	 	 
Strathcona	3	  Fair:	İ	Poor:	i	•	İ
							0.00
		organic matter Carbonate content		•	0.22	:	
		Water erosion				 	 
I67A:		 	 	 	 	 	 
Wheatville	70	  Fair:	i	Poor:	i	  Fair:	i
	İ	Low content of			0.00	Depth to	0.06
	!					saturated zone	
	 	Carbonate content   Water erosion		saturated zone Shrink-swell		•	0.32 
	į	i In a day	į	i I Bassa	į	 	į
Augsburg	!			Poor: Depth to	1	Poor:   Depth to	0.00
		organic matter		saturated zone	1	saturated zone	
	i	!			0.00	:	0.13
		Carbonate content	0.32	Shrink-swell	0.84	 	
Glyndon	8	  Fair:	 	  Poor:		  Poor:	
		Low content of	0.12	Depth to	0.00	Depth to	0.00
	 	organic matter Carbonate content		1	 	saturated zone Carbonate content	  0.32
	į _	İ	į	į	į		
Foxlake	5 	Poor:   Too clayey	:	Poor:   Depth to		Poor:   Depth to	  0.00
				saturated zone		saturated zone	
	į	organic matter	!	Low strength	0.00	Too clayey	0.00
		 	 	Shrink-swell 	0.38	 	 
Hilaire	2	Poor:	:	Poor:	:	Poor:	
					0.00  0.86	<u>-</u>	0.00
	i	!	0.12		0.88	<u> </u>	
	į	organic matter	:	saturated zone	:	!	0.97
	   	!	:	! =	:	!	

Table 21b.--Construction Materials--Continued

		!		'	rce	Potential as sou of topsoil	rce
		Rating class and		Rating class and   limiting features		Rating class and limiting features	Value
I67A: Ulen	   2           	Too sandy Low content of organic matter Carbonate content	0.00  0.16  0.50	saturated zone	0.50	· · · · · · · · · · · · · · · · · · ·	    0.16  0.50    0.68
I69A: Wyandotte	   65     	Low content of organic matter	0.12    0.32	saturated zone Low strength	0.00	saturated zone Rock fragments	  0.00    0.00  0.32
Foxlake	   10       	Too clayey	0.00  0.12	   Poor:   Depth to   saturated zone   Low strength   Shrink-swell	0.00	saturated zone Too clayey	    0.00    0.00
Espelie	   8     	!	0.00	saturated zone Low strength	0.00	saturated zone Too clayey	    0.00    0.00
Clearwater, depressional	   5     	:	0.00  0.12		0.00	saturated zone Too clayey	      0.00    0.00
Thiefriver	   5     	  Fair:   Low content of   organic matter   Carbonate content 	0.12 	  Poor:   Depth to   saturated zone   Low strength   Shrink-swell	:	saturated zone	    0.00   
Karlsruhe	   4     	•	0.12    0.68	!	0.50	  Fair:   Depth to   saturated zone   Hard to reclaim	į
Syrene	j I	Low content of organic matter Droughty	0.12    0.17  0.22	İ I	0.00	saturated zone Rock fragments	0.00
I70A: Strathcona	   70         	Low content of organic matter	0.12    0.92	saturated zone Low strength	0.00	saturated zone	    0.00     

Table 21b.--Construction Materials--Continued

component name	map	of reclamation mate		Potential as sou of roadfill	rce	Potential as sour	rce
	unit   	'	Value	   Rating class and   limiting features		   Rating class and   limiting features	Value
I70A: Kratka	     10     	Low content of organic matter	0.12 	saturated zone	      0.00    0.22	saturated zone	      0.00 
Roliss	   6   	organic matter	0.12	saturated zone	:	saturated zone	    0.00   
Grimstad	   5       	organic matter Too sandy Carbonate content	0.12    0.16		    0.12    0.22 	saturated zone	  0.12    0.16  0.92
Mavie	   3       	Low content of organic matter Carbonate content	0.00  0.12 		    0.00    0.22 	Depth to saturated zone	  0.00  0.00    0.00  0.97
Rosewood	   3       	· -	0.00  0.12 	saturated zone	    0.00     	Depth to saturated zone	  0.00  0.00    0.88
Strathcona, depressional	   3       	organic matter Carbonate content	0.12	saturated zone Low strength	    0.00    0.22 	saturated zone	    0.00     
I71A: Berner, ponded	     45   	  Not rated 	       	  Poor:   Depth to   saturated zone	0.00	  Not rated 	       
Cathro, ponded		Low content of organic matter	0.12 	  Poor:   Depth to   saturated zone   Low strength	0.00 		    0.00 
Hamre	   	Wind erosion	0.00  0.12 	Depth to saturated zone Low strength		Depth to saturated zone	    0.00   
Kratka		Low content of organic matter	0.12	saturated zone	0.00	saturated zone	    0.00     

Table 21b.--Construction Materials--Continued

component name	of map	!			rce	Potential as sou of topsoil	rce
	unit   	'	:			   Rating class and   limiting features	•
I71A: Northwood	     2 	Wind erosion	0.00	    Poor:   Depth to   saturated zone	0.00	    Poor:   Depth to   saturated zone	:
	     	organic matter	:	Low strength	:	:	     
Roliss	2   	Low content of organic matter	0.12	Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	  0.00   
Seelyeville, ponded	   2   	  Not rated     		  Poor:   Depth to   saturated zone 	0.00	  Not rated     	       
I72A:	i		i		i		i
Pelan		Low content of organic matter	0.12 		0.22	Fair:   Depth to   saturated zone 	  0.88   
Smiley	   10       	Low content of organic matter Carbonate content	0.12	Low strength	0.00	  Poor:   Depth to   saturated zone   Carbonate content 	į
Linveldt	   8       	Too sandy Low content of organic matter Carbonate content	0.00  0.12 	Low strength Depth to saturated zone	0.88	Too sandy Rock fragments	  0.00  0.50  0.88
Kratka	   5   	organic matter	0.12	   Poor:   Depth to   saturated zone   Low strength	0.00	saturated zone	    0.00   
Strandquist	   5     	Low content of organic matter	0.12 	saturated zone	:	saturated zone	    0.00   
Reiner	4   4     	Low content of organic matter Carbonate content	0.12 	Depth to saturated zone	0.22	  Fair:   Depth to   saturated zone   Carbonate content	  0.88    0.97
Eckvoll	   3         	Wind erosion   Low content of   organic matter	0.00  0.00	Depth to saturated zone	0.22	<u> </u>	    0.00  0.88     

Table 21b.--Construction Materials--Continued

	of map	:		1	rce	Potential as sou	rce
	unit   	Rating class and				   Rating class and   limiting features	
173A:		 	 	 		 	 
Boash	75	Poor:	i	Poor:	i	Poor:	i
							0.00
	ļ	:	1		-	saturated zone	
	 	•	•	Low strength Shrink-swell	•		0.00 
Clearwater		 	İ	 	Ì	 	ĺ
Clearwater	° 			Poor:   Depth to		Poor:   Depth to	  0.00
	i	•	•	saturated zone	•		
	į	organic matter	į	Low strength	0.00	Too clayey	0.00
		 		Shrink-swell	0.12	 	
Roliss		  Fair:		Poor:		Poor:	
	ļ	Low content of					0.00
				saturated zone Low strength	-		
		water erosion		Low screngen		 	 
Clearwater,				  Page		   Page   1	
depressional	5 			Poor:   Depth to		Poor:   Depth to	  0.00
	i	•	•	•	•	saturated zone	
	į	organic matter	İ	Low strength	0.00	Too clayey	0.00
				Shrink-swell	0.12		
Kittson	2	  Fair:	 	  Fair:		  Fair:	 
	ļ	Low content of			2	Depth to	!
		organic matter	:	:	:	saturated zone	:
		!	0.92			Carbonate content 	0.92 
Newfolden	2	  Fair:	 	  Fair:		  Fair:	 
	:			1		!	0.88
	į	organic matter	į	Depth to	0.88	saturated zone	İ
		•	•	•	•	Carbonate content	0.92
		Water erosion 	0.99 	Shrink-swell	0.99 	 	 
174A:	į		į	į	į		į
Urban land	65 	Not rated 	 	Not rated 	 	Not rated 	 
Endoaquents	35	Not rated	į	Not rated	į	Not rated	į
I75A:		 	 	 		 	 
Radium	40			Good	!	Poor:	
			0.00	!	!	!	0.00
	 	•	0.00  0.12	•		Rock fragments	0.50 
	i	organic matter		<u> </u>	i	 	i
	į	Droughty	0.82	į	į	  -	į
Sandberg	   20	  Poor:	 	  Good	 	  Fair:	 
-	į	:	0.00	!	į	!	0.12
	ļ		0.12	ļ			0.47
		organic matter				Hard to reclaim	0.92
	 		0.14  0.47	!		 	 
			į	! :	į		į
Garborg	15	!	  0.00	Fair:	  0.12	Fair:	  0.12
		!	0.45	:	 	Depth to saturated zone	 
	i				i	•	0.45
		I		I			

Table 21b.--Construction Materials--Continued

		Potential as sour		Potential as sou	rce	Potential as source		
=		of reclamation mate	erial	of roadfill		of topsoil		
	map	!						
	unit		1	1	1	l	1	
		Rating class and	•	-	•			
		limiting features		limiting features		limiting features		
I75A:	l I	 		İ		 		
Oylen	l l 10	  Poor:	l I	  Good		  Poor:	1	
Oylen	1 10	1	0.00			Too sandy	0.00	
	i	Low content of			i	Rock fragments	10.88	
	! 	organic matter		! 	i	ROOM II agmenes	1	
	i		i	! 	i	! 	i	
Flaming	5	Poor:	i	  Fair:	i	Poor:	i	
_	i	Too sandy		•	0.88	Too sandy	0.00	
	i			saturated zone	i	Depth to	0.88	
	i	Low content of	0.12	İ	i	saturated zone	i	
	İ	organic matter	İ	İ	İ	İ	į	
	ĺ	Droughty	0.75		İ		İ	
Karlsruhe	3	Fair:		Fair:		Fair:		
		Low content of		Depth to	0.50	Depth to	0.50	
		organic matter		saturated zone		saturated zone		
		Carbonate content	0.68			Hard to reclaim	0.68	
		Droughty	0.90		ļ		İ	
Venlo	   3	Poor	 	  Poor:		  Poor:		
venio	1	!	:	•		!	10.00	
	l I		0.12		1	Depth to	10.00	
	i	organic matter			i	saturated zone		
	i	•	0.93	 	i		i	
	i				i		i	
Hangaard	2	Poor:	i	Poor:	i	Poor:	i	
_	i	Too sandy	0.00	Depth to	0.00	Too sandy	0.00	
	i	Droughty	0.09	saturated zone	i	Depth to	0.00	
	İ	Low content of	0.12	İ	İ	saturated zone	į	
	ĺ	organic matter	İ		İ	Rock fragments	0.03	
						Hard to reclaim	0.98	
		<u> </u>	ļ		ļ		İ	
Sioux	2	1		Good	ļ.	Poor:	1	
	ļ	-	0.00		ļ	Too sandy	0.00	
			0.10	1	!	Rock fragments	0.00	
		•	0.12		!	Hard to reclaim	10.00	
	l I	organic matter	 	 	I I	 		
M-W:		! 		! 	i	! 		
Miscellaneous water	100	Not rated	į	  Not rated 	į	  Not rated 	į	
W:	! 	 	 	 	 	 		
Water	100	Not rated	i	Not rated	i	Not rated	i	
	i	İ	i	: I	i	i	i	

Table 22.--Water Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol and component name	Pct. of map	į	eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit 	Rating class and   limiting features	•	Rating class and   limiting features		   Rating class and   limiting features	Value
	l	IIMICING Teacures		IIMICING Teacures		IIMICING TEACUTES	<del> </del>
B109A: Bowstring	   45 	  Very limited:   Seepage	      1.00		    1.00	  Very limited:   Cutbanks cave	      1.00
	     	 	     	organic matter Ponding Depth to saturated zone	  1.00  1.00	 	     
Fluvaquents	   40 	  Very limited:   Seepage	    1.00	  Very limited:   Ponding   Depth to	    1.00  1.00	•	    1.00
	 	 	 	saturated zone Seepage	0.03	  -	
Hapludalfs	   5   	  Very limited:   Seepage   Slope	    1.00  0.59		    0.99  0.87	•	    0.10  0.06
	 	 	 	saturated zone		 	
Seelyeville	5   	Very limited:   Seepage	1.00	Not rated 	   	Somewhat limited:   Cutbanks cave	0.10
Water	   5 	  Not rated 		  Not rated 	   	  Not rated 	
B200A: Garnes	   70 	  Somewhat limited:   Seepage	0.72	saturated zone	0.87	Cutbanks cave	    0.28  0.10
Chilgren	     13 	    Somewhat limited:   Seepage	      0.72	Piping    Very limited:   Depth to	0.74      1.00	    Somewhat limited:	0.06        0.10
	   	 	   	saturated zone   Ponding   Piping	  1.00  0.78	 	
Eckvoll	   5   	  Very limited:   Seepage   	    1.00 	Somewhat limited:   Depth to   saturated zone   Seepage	  0.87    0.33	Slow refill	  1.00  0.28  0.06
Garnes, very stony	     5 	  Somewhat limited:   Seepage	0.72	  Somewhat limited:   Depth to	    0.87	  Somewhat limited:   Slow refill	    0.28
	   	   	   	saturated zone Piping		Cutbanks cave Depth to water	0.10  0.06
Grygla	4     	  Very limited:   Seepage   	  1.00 	Very limited:   Depth to   saturated zone   Ponding	  1.00    1.00	İ	  1.00 
	į Į		į Į	Piping   Seepage	0.98	•	i 

Table 22.--Water Management--Continued

component name	Pct. of map unit	Pond reservoir ar    - 	eas   Embankments, dikes   levees		, and	Aquifer-fed   excavated pond 	ls
	unite   	'	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
B200A: Pelan	   3       	    Very limited:   Seepage   	      1.00   	  Somewhat limited:   Piping   Depth to   saturated zone   Seepage	    0.98  0.87    0.01	  Very limited:   Cutbanks cave   Slow refill   Depth to water	    1.00  0.28  0.06
B201A: Chilgren	   75     	  Somewhat limited:   Seepage     	      0.72   	  Very limited:   Depth to   saturated zone   Ponding   Piping	    1.00    1.00  0.78	  Somewhat limited:   Cutbanks cave     	    0.10   
Garnes	   9     	  Somewhat limited:   Seepage   	    0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.74	Cutbanks cave	  0.28  0.10  0.06
Grygla	   5       	  Very limited:   Seepage     	    1.00       	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.98  0.16	  Very limited:   Cutbanks cave       	  1.00     
Grygla, depressional	   5       	  Very limited:   Seepage       	    1.00     	  Very limited:   Ponding   Depth to   saturated zone   Piping   Seepage	  1.00  1.00    0.98  0.16	  Very limited:   Cutbanks cave       	  1.00     
Hamre	   5       	  Somewhat limited:   Seepage   	    0.72     	  Very limited:   Ponding   Depth to   saturated zone   Piping	  1.00  1.00      0.87	  Somewhat limited:   Cutbanks cave   	  0.10   
Pelan	   1       	  Very limited:   Seepage   	  1.00     	Somewhat limited:   Piping   Depth to   saturated zone   Seepage	  0.98  0.87    0.01	  Very limited:   Cutbanks cave   Slow refill   Depth to water	  1.00  0.28  0.06
B202A: Cathro	     80     	  Very limited:   Seepage   	      1.00   	  Very limited:   Ponding   Depth to   saturated zone	      1.00  1.00	  Somewhat limited:   Cutbanks cave   	      0.10 
Hamre	   8       	  Somewhat limited:   Seepage     	    0.72     	  Very limited:   Ponding   Depth to   saturated zone   Piping	  1.00  1.00    0.87	  Somewhat limited:   Cutbanks cave     	  0.10     

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map unit	 	eas	Embankments, dikes, and   levees 		Aquifer-fed   excavated pond 	ls
	   		•	   Rating class and   limiting features		Rating class and limiting features	
B202A: Chilgren	   3     	  Somewhat limited:   Seepage   	      0.72   	saturated zone Ponding	1.00	 	      0.10   
Northwood	   3     	! -	    1.00     		•	į	    1.00   
Berner	   2   	  Very limited:   Seepage   	    1.00   	Ponding	•	  Very limited:   Cutbanks cave   	    1.00 
Grygla	   2       	  Very limited:   Seepage     	:	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	•	į	  1.00     
Seelyeville	   2 		    1.00	  Not rated   	     	  Somewhat limited:   Cutbanks cave 	    0.10
B203A: Northwood	   75       	! -	    1.00   	Ponding Depth to saturated zone	1.00	 	  1.00   
Hamre	   10       	•	    0.72     	  Very limited:   Ponding   Depth to   saturated zone   Piping	  1.00  1.00      0.87	 	  0.10   
Grygla	7         	  Very limited:   Seepage       	  1.00       	saturated zone Ponding	  1.00    1.00  0.98  0.16	 	  1.00     
Berner	   5     	  Very limited:   Seepage   	    1.00   	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00 	!	    1.00 
Chilgren	3   3     	  Somewhat limited:   Seepage     	    0.72     	  Very limited:   Depth to   saturated zone   Ponding   Piping 	  1.00    1.00  0.78	 	  0.10     

Table 22.--Water Management--Continued

component name	Pct. of map unit	 	eas	Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond 	ls
	unit   	'	Value 	   Rating class and   limiting features	Value 	   Rating class and   limiting features	Value
B204A: Roliss	   75       	•	      0.72   	saturated zone Ponding	    1.00    1.00  0.50	    Somewhat limited:   Slow refill   Cutbanks cave   	    0.28  0.10 
Grygla	   8         	  Very limited:   Seepage       	    1.00     	saturated zone Ponding	  1.00    1.00  0.98  0.16	  Very limited:   Cutbanks cave       	  1.00     
Chilgren	   5     	  Somewhat limited:   Seepage   	    0.72     	saturated zone	  1.00    1.00  0.78	  Somewhat limited:   Cutbanks cave   	  0.10   
Garnes	   5     	  Somewhat limited:   Seepage   	    0.72   	saturated zone	    0.87    0.74	Cutbanks cave	  0.28  0.10  0.06
Roliss, depressional	   5     	  Somewhat limited:   Seepage   	    0.72     	Depth to saturated zone	  1.00  1.00    0.50	!	  0.28  0.10 
Hamre	   2       	  Somewhat limited:   Seepage   	  0.72     	Depth to saturated zone	  1.00  1.00      0.87	  Somewhat limited:   Cutbanks cave   	  0.10   
B205A: Berner	     80     	  Very limited:   Seepage 	    1.00 	  Very limited:   Ponding   Depth to   saturated zone	    1.00  1.00	  Very limited:   Cutbanks cave 	    1.00 
Northwood	   7     		 	Depth to saturated zone	1.00  1.00	İ	  1.00   
Grygla	   5       	  Very limited:   Seepage     	    1.00     	saturated zone Ponding Piping	  1.00    1.00  0.98  0.16	 	  1.00     
Cathro	   3     	  Very limited:   Seepage   	    1.00   	  Very limited:   Ponding	į	  Somewhat limited:   Cutbanks cave	0.10

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map	 	eas	   Embankments, dikes   levees 	, and	Aquifer-fed excavated ponds	
	unit   		Value	Rating class and   limiting features	,	Rating class and	Value
B205A: Hamre	   3     	  Somewhat limited:   Seepage   	      0.72   	Depth to saturated zone	    1.00  1.00    0.87	  Somewhat limited:   Cutbanks cave   	      0.10   
Seelyeville	   2 	• -	    1.00	  Not rated   	     	  Somewhat limited:   Cutbanks cave	    0.10
B206A: Hamre	   80       	  Somewhat limited:   Seepage   	      0.72   	Depth to saturated zone	    1.00  1.00   	  Somewhat limited:   Cutbanks cave   	    0.10   
Chilgren	   8     	  Somewhat limited:   Seepage   	    0.72     	saturated zone Ponding	  1.00    1.00  0.78	İ	    0.10     
Northwood	   5     	  Very limited:   Seepage   	    1.00   	Depth to saturated zone	  1.00  1.00    0.16	  Very limited:   Cutbanks cave   	    1.00   
Cathro	   3   	  Very limited:   Seepage   	    1.00   	!	    1.00  1.00	  Somewhat limited:   Cutbanks cave   	    0.10   
Grygla	   2       	  Very limited:   Seepage       	    1.00       	saturated zone Ponding Piping	  1.00    1.00  0.98  0.16		    1.00       
Roliss	   2       	  Somewhat limited:   Seepage     	    0.72     	saturated zone Ponding	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave   	  0.28  0.10   
B207A: Pelan	   70     	  Very limited:   Seepage   	    1.00     		  0.98  0.87    0.01	•	  1.00  0.28  0.06
Chilgren	   10         	  Somewhat limited:   Seepage   	    0.72     	saturated zone Ponding	  1.00    1.00  0.78	İ	    0.10     

Table 22.--Water Management--Continued

component name	Pct.   Pond reservoir areas   of			Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
B207A: Garnes	     10     		      0.72   	saturated zone	      0.87    0.74	Cutbanks cave	    0.28  0.10  0.06
Eckvoll	   5   	  Very limited:   Seepage   	    1.00 	saturated zone	    0.87    0.33	Slow refill	  1.00  0.28  0.06
Grygla	   5       	  Very limited:   Seepage     	    1.00       	saturated zone Ponding Piping	  1.00    1.00  0.98  0.16	  Very limited:   Cutbanks cave     	  1.00       
B208A: Grygla	   75   75       	  Very limited:   Seepage     	      1.00     	saturated zone Ponding Piping	    1.00    1.00  0.98  0.16	  Very limited:   Cutbanks cave     	    1.00     
Chilgren	   10       	!	    0.72     	saturated zone Ponding	  1.00    1.00  0.78	  Somewhat limited:   Cutbanks cave     	  0.10   
Eckvoll	   5     	  Very limited:   Seepage   	    1.00   	saturated zone	    0.87    0.33	Slow refill	  1.00  0.28  0.06
Grygla, depressional	   5       	  Very limited:   Seepage       	    1.00     	Depth to saturated zone	  1.00  1.00    0.98  0.16	  Very limited:   Cutbanks cave     	  1.00     
Northwood	   5       	  Very limited:   Seepage     	    1.00     	Depth to saturated zone	 	  Very limited:   Cutbanks cave     	  1.00     
B209A: Seelyeville	   90 	•	      1.00	    Not rated 	     	    Somewhat limited:   Cutbanks cave	0.10
Cathro	   3       	  Very limited:   Seepage     	    1.00     		 	  Somewhat limited:   Cutbanks cave     	  0.10   

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map	į	eas	   Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond	ls
	unit   	'	Value	Rating class and limiting features		   Rating class and   limiting features	Value
B209A: Dora	     3   	    Very limited:   Seepage   	      1.00 	!	      1.00  1.00	    Somewhat limited:   Cutbanks cave   	      0.10 
Markey	   3     	  Very limited:   Seepage   	    1.00     	Depth to saturated zone	    1.00  1.00    0.90	  Very limited:   Cutbanks cave   	    1.00   
Berner	   1     	  Very limited:   Seepage   	    1.00   		    1.00  1.00 	  Very limited:   Cutbanks cave   	    1.00   
B210A: Eckvoll	   70     	! -	    1.00 	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.33	Slow refill	  1.00  0.28  0.06
Chilgren	   12       		    0.72     	saturated zone Ponding	  1.00    1.00  0.78	  Somewhat limited:   Cutbanks cave     	  0.10   
Grygla	   8       	  Very limited:   Seepage     	    1.00     	saturated zone Ponding Piping	  1.00    1.00  0.98  0.16	İ	  1.00     
Garnes	   7     	  Somewhat limited:   Seepage   	    0.72   	saturated zone	    0.87    0.74	Cutbanks cave	  0.28  0.10  0.06
Pelan	   3       	  Very limited:   Seepage     	    1.00     		  0.98  0.87    0.01	•	  1.00  0.28  0.06
B211A: Berner, ponded	   45   	  Very limited:   Seepage   	    1.00   		    1.00  1.00	  Very limited:   Cutbanks cave   	    1.00 
Cathro, ponded	   45     		    1.00 	!	    1.00  1.00	  Somewhat limited:   Cutbanks cave   	    0.10 

Table 22.--Water Management--Continued

component name	Pct.  Pond reservoir areas   of    map    unit			   Embankments, dikes   levees	Aquifer-fed excavated ponds		
	unit   	'	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
B211A: Chilgren	   2       	    Somewhat limited:   Seepage   	      0.72   	  -   Very limited:   Depth to   saturated zone   Ponding   Piping	    1.00    1.00  0.78	    Somewhat limited:   Cutbanks cave   	      0.10   
Grygla	   2       	  Very limited:   Seepage     	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.98  0.16	  Very limited:   Cutbanks cave     	    1.00     
Hamre	   2     	  Somewhat limited:   Seepage   	    0.72     	   Ponding   Depth to   saturated zone   Piping	  1.00  1.00    0.87	  Somewhat limited:   Cutbanks cave   	  0.10   
Northwood	   2     	  Very limited:   Seepage     	    1.00     	   Very limited:   Ponding   Depth to   saturated zone   Seepage	  1.00  1.00    0.16	  Very limited:   Cutbanks cave     	  1.00   
Seelyeville, ponded	   2 	  Very limited:   Seepage 	    1.00	  Not rated   	     	  Somewhat limited:   Cutbanks cave 	    0.10
IlA: Augsburg	   75       	! -	    1.00   	   Very limited:   Depth to   saturated zone   Ponding   Piping	   1.00   1.00   0.05	  Very limited:   Cutbanks cave     	    1.00   
Borup	   10       	  Very limited:   Seepage   	    1.00     	  Very limited:   Depth to   saturated zone   Piping   Ponding	  1.00    1.00  1.00	  Somewhat limited:   Cutbanks cave     	  0.10   
Foxlake	   5       	  Not limited     	         	   Very limited:   Depth to   saturated zone   Ponding   Hard to pack	  1.00    1.00  0.41	į	  0.10     
Augsburg, depressional	   3     	  Very limited:   Seepage   	      1.00   	  Very limited:   Ponding   Depth to   saturated zone   Piping	    1.00  1.00    0.05	  Somewhat limited:   Cutbanks cave   	      0.10   
Wheatville	   3   	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone 	    1.00   	  Somewhat limited:   Cutbanks cave   	    0.10 

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map unit	 	Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond 	s	
		'	Value	Rating class and   limiting features	•	Rating class and   limiting features	Value
IlA: Glyndon	   2     	  Very limited:   Seepage   	      1.00 	saturated zone		  Very limited:   Cutbanks cave   	      1.00
Espelie	   1     	  Very limited:   Seepage     	    1.00     	saturated zone Ponding	!	  Very limited:   Cutbanks cave     	    1.00   
Hattie	   1     	  Not limited     	       	saturated zone	    0.99    0.88	Cutbanks cave	  1.00  0.10  0.01
I3A: Berner	   80 	! =	1.00	  Not rated 	     	  Very limited:   Cutbanks cave	1.00
Northwood	   7     	  Very limited:   Seepage     	    1.00   	Depth to saturated zone	  1.00  1.00    0.13	 	  1.00   
Kratka	   5       	  Very limited:   Seepage       	    1.00     	saturated zone Ponding Piping	:	į	    1.00     
Hamre	   3     	  Somewhat limited:   Seepage   	    0.72   	Depth to saturated zone	  1.00  1.00    0.87	  Somewhat limited:   Cutbanks cave   	  0.10   
Strathcona	   3       	  Very limited:   Seepage     	    1.00     	saturated zone Ponding Piping	  1.00    1.00  0.98  0.25	  Very limited:   Cutbanks cave     	  1.00     
Seelyeville	   2 	  Very limited:   Seepage 	    1.00	  Not rated   	     	  Somewhat limited:   Cutbanks cave 	    0.10
I4A: Berner	   30 	  Very limited:   Seepage 	      1.00	  Not rated   	       	  Very limited:   Cutbanks cave 	    1.00
Rosewood, depressional	   30       	  Very limited:   Seepage       	    1.00     	Very limited: Ponding Depth to saturated zone Seepage	  1.00  1.00    0.25	  Very limited:   Cutbanks cave     	    1.00     

Table 22.--Water Management--Continued

component name	Pct.   Of   map   unit		eas	   Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond 	ls
	unit   	'		   Rating class and   limiting features	•	Rating class and limiting features	Value
I4A: Strathcona, depressional	     30       	! - T	        1.00     	Depth to saturated zone	      1.00  1.00    0.98	    Very limited:   Cutbanks cave   	      1.00   
Rosewood	   4     	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone	į	  Very limited:   Cutbanks cave   	    1.00   
Deerwood	   2 	  Very limited:   Seepage	    1.00	  Not rated 	   	  Very limited:   Cutbanks cave	    1.00
Mavie	   2     	  Very limited:   Seepage   	    1.00     	saturated zone Ponding	•	  Very limited:   Cutbanks cave   	  1.00   
Strathcona	   2       	  Very limited:   Seepage       	    1.00       	saturated zone Ponding	  1.00    1.00  0.98  0.25	  Very limited:   Cutbanks cave     	  1.00     
I5A: Borup	   75     	! -	      1.00   	saturated zone	    1.00    1.00	  Somewhat limited:   Cutbanks cave   	      0.10   
Glyndon	   9     	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Piping	    1.00    1.00	  Very limited:   Cutbanks cave   	  1.00 
Rosewood	   8     	  Very limited:   Seepage     	 	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	  Very limited:   Cutbanks cave     	  1.00   
Augsburg	   5       	  Very limited:   Seepage     	    1.00       	saturated zone	  1.00    1.00  0.05	  Very limited:   Cutbanks cave     	  1.00     
Augsburg, depressional	3         	  Very limited:   Seepage       	    1.00       	  Very limited:   Ponding   Depth to   saturated zone   Piping	  1.00  1.00    0.05	  Somewhat limited:   Cutbanks cave     	  0.10     

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map	Pond reservoir ar	eas	Embankments, dikes	, and	Aquifer-fed excavated pond	ls
	unit   	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I7A:	 	[ [	 	 	 	[ [	
Bowstring	45 	! -	1.00	Not rated 	į Į	  Very limited:   Cutbanks cave	1.00
Fluvaquents	   45       		    1.00   	   Very limited:   Ponding   Depth to   saturated zone   Seepage	  1.00  1.00      0.03	  Very limited:   Cutbanks cave   	  1.00   
Hapludolls	   5   		    0.72  0.01	  Very limited:   Piping 	    1.00	  Very limited:   Depth to water 	    1.00
Water	   5 	  Not rated 	   	  Not rated 	   	  Not rated 	
I8A:	   80	Very limited:	į	    Not rated	į	    Somewhat limited:	į
Catiff 0	80		11.00			Cutbanks cave	0.10
Hamre	   8     	  Somewhat limited:   Seepage   	  0.72     	   Very limited:   Ponding   Depth to   saturated zone   Piping	  1.00  1.00      0.87	   Somewhat limited:   Cutbanks cave     	  0.10   
Northwood	   3     	  Very limited:   Seepage   	    1.00     	  Very limited:   Ponding   Depth to   saturated zone   Seepage	  1.00  1.00    0.13	  Very limited:   Cutbanks cave     	  1.00   
Roliss	   3     	Somewhat limited:   Seepage 	    0.72     	   Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.50	   Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Berner	   2 	  Very limited:   Seepage	    1.00	  Not rated   	   	  Very limited:   Cutbanks cave	1   1.00
Kratka	   2       	   Very limited:   Seepage     	  1.00       	   Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.01	  Very limited:   Cutbanks cave       	  1.00     
Seelyeville	   2 	  Very limited:   Seepage 	    1.00	  Not rated   	     	  Somewhat limited:   Cutbanks cave 	    0.10
I9A: Clearwater	   80         	  Not limited     	           	  Very limited:   Depth to   saturated zone   Ponding   Hard to pack	    1.00    1.00  0.88	  Very limited:   Slow refill   Cutbanks cave 	    1.00  0.10 

Table 22.--Water Management--Continued

component name	of map	į	eas	   Embankments, dikes   levees 	, and	   Aquifer-fed   excavated pond 	s
	unit   	Rating class and		   Rating class and   limiting features			
I9A: Clearwater, very cobbly	     5   	    Not limited     	;     	Depth to saturated zone	1.00    1.00	Cutbanks cave	        1.00  0.10
Reis	   5     	  Not limited     		•	1.00	Cutbanks cave	  1.00  0.10
Clearwater, depressional	   3   	  Not limited       	;     	Ponding	1.00  1.00 	Cutbanks cave	    0.46  0.10 
Espelie				Depth to saturated zone Ponding	1.00	 	  1.00   
Foxlake	   2     	  Not limited     	   	Depth to   saturated zone   Ponding	1.00		  0.10   
Hattie	   1   	  Not limited   		  Somewhat limited:   Depth to   saturated zone   Hard to pack	0.99	Slow refill   Cutbanks cave	  1.00  0.10  0.01
Huot	   1     	  Very limited:   Seepage     		saturated zone	0.87	Cutbanks cave	  1.00  0.06
I11A: Deerwood	     85	    Verv limited:	į	    Not rated	į	    Very limited:	į
DCC1 #004			1.00		į	Cutbanks cave	1.00
Rosewood	   6     	  Very limited:   Seepage   	  1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25		  1.00   
Markey	   3 	  Very limited:   Seepage	1	  Not rated 	   	  Very limited:   Cutbanks cave	1
Strathcona	   2         	   Very limited:   Seepage       	  1.00         	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.98  0.25		    1.00         

Table 22.--Water Management--Continued

component name	Pct. of map	Pond reservoir ar	eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit   	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
IllA: Syrene	     2 	    Very limited:   Seepage	      1.00	saturated zone	1.00	    Very limited:   Cutbanks cave 	      1.00
Venlo	       2     	    Very limited:   Seepage   	        1.00   	Ponding Seepage Very limited: Ponding Depth to saturated zone Seepage	1.00  0.22      1.00  1.00 	    Very limited:   Cutbanks cave   	        1.00   
I12A: Eckvoll	     70	 	 	    Somewhat limited:		    Very limited:	
EGRVOII	70     		  1.00   	!	0.87	Cutbanks cave	1.00  0.28  0.06
Kratka	   8       	  Very limited:   Seepage     	    1.00       	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.01	  Very limited:   Cutbanks cave       	  1.00       
Smiley	   7     	  Somewhat limited:   Seepage   	    0.72     	  Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.71	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Linveldt	   5   	  Very limited:   Seepage   	    1.00 	  Somewhat limited:   Piping   Depth to   saturated zone	    0.99  0.87	  Very limited:   Cutbanks cave   Slow refill   Depth to water	  1.00  0.28  0.06
Reiner	   5   	  Somewhat limited:   Seepage 	    0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	  0.87    0.66	  Somewhat limited:   Slow refill   Cutbanks cave   Depth to water	  0.28  0.10  0.06
Foldahl	   2     	  Very limited:   Seepage 	    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	  0.87    0.25	  Very limited:   Cutbanks cave   Depth to water 	  1.00  0.06
Pelan	   2     	  Very limited:   Seepage     	    1.00     	  Somewhat limited:   Piping   Depth to   saturated zone   Seepage	  0.98  0.87    0.51	  Very limited:   Cutbanks cave   Slow refill   Depth to water 	  1.00  0.28  0.06
Poppleton	   1     	  Very limited:   Seepage   	    1.00     	  Somewhat limited:   Depth to   saturated zone   Seepage	  0.87    0.25	Very limited: Cutbanks cave Depth to water	  1.00  0.06

Table 22.--Water Management--Continued

Map symbol and component name	  Pct.   of  map	į	eas	   Embankments, dikes   levees 	, and	   Aquifer-fed   excavated pond 	s
	unit	'		<u> </u>	l 7	<u> </u>	1
	 	Rating class and   limiting features		Rating class and   limiting features		Rating class and   limiting features	Value
	<u> </u>	 	İ	 	i	 	i
I13A: Espelie	   75   	! -	    1.00 	  Very limited:   Depth to   saturated zone	    1.00 	  Very limited:   Cutbanks cave 	    1.00
	ļ		!	!	1.00	<u> </u>	
			!	Seepage	0.13		!
Foxlake	   8   	  Not limited   	     	  Very limited:   Depth to   saturated zone	    1.00 	  Somewhat limited:   Cutbanks cave 	    0.10 
			ļ	Ponding	1.00		ļ
			!	Hard to pack	0.41		!
Hilaire	   7   	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water 	  1.00  0.06
		!	!	!		!	İ
Clearwater, depressional	   5   	  Not limited   	     	  Very limited:   Ponding   Depth to	    1.00  1.00	!	  0.46  0.10
	l I	 		saturated zone Hard to pack	  0.76	 	!
	i	! 	i	Mara co pack		! 	i
Thiefriver	5   	  Very limited:   Seepage 	  1.00 	saturated zone	1.00	į	1.00
	l I	 		Ponding   Seepage	1.00  0.01	 	!
	! 	! 	i	beepage		! 	i
I15A:	į	İ	į	İ	į	İ	i
Flaming	70     	! -	  1.00   	Somewhat limited:   Depth to   saturated zone   Seepage	  0.87    0.25	!	  1.00  0.06 
			!		İ		ļ
Garborg	10   	! -	  1.00 	saturated zone	1.00 	Very limited:   Cutbanks cave 	  1.00 
			!	Seepage	0.25		!
Hamar	   5     	  Very limited:   Seepage   	    1.00 	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	į	    1.00 
	i	İ	i	Seepage	0.25	İ	i
	l	I		İ		I	İ
Ulen	5	Very limited:	!	Very limited:	:	Very limited:   Cutbanks cave	
	l I	Seepage 	1.00	Depth to saturated zone	1.00 	Cutbanks cave	1.00
	İ	İ		Seepage	0.25	İ	i
Poppleton	   3 	  Very limited:   Seepage	    1.00	  Somewhat limited:   Depth to	    0.87	  Very limited:   Cutbanks cave	    1.00
	   	     		saturated zone   Seepage	0.25	Depth to water	0.06
Sandberg	   3 	  Very limited:   Seepage	1	  Somewhat limited:   Seepage	    0.51	  Very limited:   Depth to water	1.00

Table 22.--Water Management--Continued

component name	Pct. of map	į	eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit   	'		   Rating class and   limiting features		   Rating class and   limiting features	Value
I15A: Foldahl	   2   	    Very limited:   Seepage   	      1.00 	  Somewhat limited:   Depth to   saturated zone   Seepage	      0.87    0.25	Depth to water	    1.00  0.06
Radium	   2     	  Very limited:   Seepage     	    1.00     	  Somewhat limited:   Seepage   Depth to   saturated zone	  0.79  0.50 	!	  1.00  0.22 
I16F: Fluvaquents	   55       	! -	    1.00   	  Very limited:   Ponding   Depth to   saturated zone   Seepage	    1.00  1.00    0.03	  Very limited:   Cutbanks cave   	  1.00   
Hapludolls	   25   	Seepage	    0.72  0.01	!	1.00	  Very limited:   Depth to water 	1.00
Hapludalfs	   7     		    1.00  0.59 	!		  Somewhat limited:   Cutbanks cave   Depth to water	  0.10  0.06
Fairdale	   5     		    0.72  0.01 	!	  1.00  0.87	!	  0.28  0.10  0.06
Water	   5 	  Not rated 	   	  Not rated 		  Not rated 	
Bowstring	   2 	  Very limited:   Seepage 	1.00	  Not rated   		  Very limited:   Cutbanks cave	1.00
Rauville	   1         	  Very limited:   Seepage       	  1.00       	   Ponding   Depth to   saturated zone   Piping   Seepage	  1.00  1.00    0.80  0.01		  1.00       
I17A: Foldahl	   75       		    1.00     	  Very limited:   Piping   Depth to   saturated zone   Seepage	  1.00  0.87    0.25	Depth to water	  1.00  0.06 
Kratka	   10           		  1.00         	   Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.01	İ	  1.00       

Table 22.--Water Management--Continued

component name	Pct. of map		eas	   Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond 	s
	unit		177- 1	Dating along and	177-1	   Dating along and	177-7
	 	Rating class and   limiting features	•	Rating class and   limiting features		Rating class and   limiting features	Value 
I17A: Roliss	     5   	    Somewhat limited:   Seepage   	      0.72   	saturated zone Ponding	      1.00    1.00	  Somewhat limited:   Slow refill   Cutbanks cave	    0.28  0.10
Flaming	     4   	  Very limited:   Seepage   	      1.00 	saturated zone	0.50      0.87    0.25	  Very limited:   Cutbanks cave   Depth to water	    1.00  0.06
Grimstad	   2   	  Very limited:   Seepage   	    1.00 	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.05	  Very limited:   Cutbanks cave   	    1.00 
Linveldt	   2     	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Piping   Depth to   saturated zone	    0.99  0.87	   Cutbanks cave   Slow refill   Depth to water	  1.00  0.28  0.06
Eckvoll	   1   	  Very limited:   Seepage   	    1.00 	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	Slow refill	  1.00  0.28  0.06
Strathcona	   1       	   Very limited:   Seepage     	    1.00       	saturated zone	  1.00    1.00  0.98  0.25	  Very limited:   Cutbanks cave   	    1.00       
I18A: Foldahl	     75   		      1.00 	saturated zone	      0.87    0.25	  Very limited:   Cutbanks cave   Depth to water	    1.00  0.06
Kratka	   10         	  Very limited:   Seepage     	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.01	  Very limited:   Cutbanks cave       	    1.00     
Roliss	   5     	  Somewhat limited:   Seepage   	    0.72     	saturated zone	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Flaming	   4     	  Very limited:   Seepage   	    1.00     	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water 	  1.00  0.06 

Table 22.--Water Management--Continued

component name	Pct. of map	Pond reservoir ar	eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit   		Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I18A: Grimstad	     2   	    Very limited:   Seepage   	      1.00 	  Very limited:   Depth to   saturated zone   Seepage	      1.00    0.05	    Very limited:   Cutbanks cave   	      1.00
Linveldt	   2       	  Very limited:   Seepage     	    1.00     	  Somewhat limited:   Piping   Depth to   saturated zone	    0.99  0.87 	  Very limited:   Cutbanks cave   Slow refill   Depth to water 	  1.00  0.28  0.06
Eckvoll	   1   	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	  Very limited:   Cutbanks cave   Slow refill   Depth to water	  1.00  0.28  0.06
Strathcona	   1         	  Very limited:   Seepage   	    1.00       	   Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.98  0.25	  Very limited:   Cutbanks cave     	  1.00       
I19A: Foxhome	     65     	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Piping   Depth to   saturated zone   Seepage	0.96	  Very limited:   Cutbanks cave   Slow refill   Depth to water	    1.00  0.28  0.06
Kittson	   10     	  Somewhat limited:   Seepage   	    0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.78	  Somewhat limited:   Slow refill   Cutbanks cave   Depth to water	  0.28  0.10  0.06
Strandquist	   10         		    1.00     	   Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.68	  Very limited:   Cutbanks cave       	  1.00     
Foldahl	   5       	  Very limited:   Seepage   	    1.00     	  Very limited:   Piping   Depth to   saturated zone   Seepage	  1.00  0.87    0.25	  Very limited:   Cutbanks cave   Depth to water 	  1.00  0.06
Grimstad	   5     	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.05	  Very limited:   Cutbanks cave   	    1.00 
Roliss	   3       	  Somewhat limited:   Seepage     	    0.72       	  Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave   	  0.28  0.10   

Table 22.--Water Management--Continued

component name	Pct.  Pond reservoir areas   of    map			Embankments, dikes   levees	, and	Aquifer-fed excavated pond	ls
	unit   	'	•	   Rating class and   limiting features		Rating class and   limiting features	Value
I19A: Mavie	   2       	  Very limited:   Seepage   	      1.00   	saturated zone Ponding	    1.00    1.00  0.61	  Very limited:   Cutbanks cave   	    1.00   
I20A: Foxlake	     75     	  Not limited     	         	saturated zone Ponding	    1.00    1.00  0.41	  Somewhat limited:   Cutbanks cave     	    0.10   
Clearwater	   5     	  Not limited     	         	saturated zone Ponding	  1.00    1.00  0.88	  Very limited:   Slow refill   Cutbanks cave   	  1.00  0.10 
Foxlake, very cobbly	   5     	  Not limited     	         	saturated zone Ponding	  1.00    1.00  0.41	  Somewhat limited:   Cutbanks cave   	  0.10   
Augsburg	   3       	  Very limited:   Seepage   	    1.00     	saturated zone Ponding	    1.00    1.00  0.05	  Very limited:   Cutbanks cave   	  1.00   
Clearwater, depressional	   3       	  Not limited       	           	Depth to saturated zone	    1.00  1.00    0.76	Cutbanks cave	    0.46  0.10 
Espelie	   3     	  Very limited:   Seepage     	    1.00   		  1.00    1.00  0.13	  Very limited:   Cutbanks cave     	    1.00   
Hilaire	   2   		    1.00 	saturated zone	    0.87    0.25	Depth to water	  1.00  0.06
Reis	   2     	  Not limited     	       	saturated zone	    1.00    0.88	Cutbanks cave	  1.00  0.10
Wheatville	   2   	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone 	    1.00 	  Somewhat limited:   Cutbanks cave   	  0.10 

Table 22.--Water Management--Continued

component name	Pct. of map unit	 	eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated ponds		
	   	'		   Rating class and   limiting features	•	   Rating class and   limiting features	Value	
I22A: Glyndon	     75   		      1.00 	saturated zone	•	    Very limited:   Cutbanks cave   	      1.00	
Borup	   10     	! - T	    1.00   	saturated zone		  Somewhat limited:   Cutbanks cave   	  0.10   	
Augsburg	   5     	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Ponding	į	 	    0.10   	
Ulen	   5     	  Very limited:   Seepage   	    1.00 	  Very limited:	•	  Very limited:   Cutbanks cave   	    1.00 	
Wheatville	   3 	  Very limited:   Seepage 	    1.00 	  Very limited:   Depth to   saturated zone	!	  Somewhat limited:   Cutbanks cave 	    0.10 	
Flaming	   2     	  Very limited:   Seepage   	    1.00   	saturated zone	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06	
I24A: Grimstad	   70     	•	      1.00 	saturated zone	•	  Very limited:   Cutbanks cave 	    1.00 	
Strathcona	   12         	  Very limited:   Seepage     	    1.00     	saturated zone Ponding	•	  Very limited:   Cutbanks cave     	  1.00     	
Foldahl	   5     	  Very limited:   Seepage   	    1.00     	   Very limited:   Piping   Depth to   saturated zone   Seepage	  1.00  0.87    0.25	Depth to water	  1.00  0.06	
Hamerly	   5     	  Somewhat limited:   Seepage   	    0.72   	saturated zone	  1.00    0.62	Cutbanks cave	  0.28  0.10	
Foxhome	   2         	  Very limited:   Seepage       	    1.00       		  0.96  0.87    0.03	Slow refill   Depth to water	  1.00  0.28  0.06	

Table 22.--Water Management--Continued

component name	Pct. of map	   Pond reservoir ar   	eas	   Embankments, dikes   levees 	Aquifer-fed excavated pond	ls	
	unit	! 		! 		! 	
			•	Rating class and   limiting features		Rating class and limiting features	
	L I	IIMICING Teacures	<u> </u>	IIMICING Teacures	<u> </u>	IIMICING Teacures	<del> </del>
I24A:	i		i		i	İ	i
Karlsruhe	2	Very limited:	[	Very limited:		Very limited:	1
		Seepage	1.00	! =	1.00	Cutbanks cave	1.00
	 	 		saturated zone Seepage	0.54	 	
	İ	İ	İ	İ	İ	İ	İ
Mavie	2	Very limited:   Seepage	1.00	Very limited:	1.00	Very limited:   Cutbanks cave	11.00
	 	seepage 	1	Depth to saturated zone	1	Cucbanks cave	1
	į		i	Ponding	1.00	İ	i
				Seepage	0.61		
Ulen	   2	  Very limited:	 	  Very limited:		  Very limited:	
	į	Seepage	1.00		1.00		1.00
			[	saturated zone	1	<u> </u>	1
	 	 		Seepage	0.25	 	
I25A:	! 	 	i	! 	i	! 	i
Hamar	75	Very limited:		Very limited:		Very limited:	1
		Seepage	1.00		1.00	Cutbanks cave	1.00
	 	 		saturated zone Ponding	1	 	1
			i	Seepage	0.25	İ	i
Canhana				 			
Garborg	10	Seepage	1 1.00	Very limited:   Depth to	1	Very limited:   Cutbanks cave	1
	į		i	saturated zone	i		i
				Seepage	0.25		
Rosewood	   7	  Very limited:	 	  Very limited:	 	  Very limited:	
	İ	Seepage	1.00	Depth to	1.00	Cutbanks cave	1.00
			ļ	saturated zone			ļ
	 	 		Ponding   Seepage	1.00	 	1
	İ	İ	i		İ	İ	i
Venlo	3	Very limited:		Very limited:	:	Very limited:	
	 	Seepage 	1.00	Ponding Depth to	1.00	Cutbanks cave	1.00
	<u> </u>		i	saturated zone			i
	ļ		ļ	Seepage	0.25		ļ
Flaming	   2	  Very limited:	 	  Somewhat limited:		  Very limited:	
-	į	Seepage	1.00		0.87	:	1.00
	ļ		!	saturated zone		Depth to water	0.06
	 	 	 	Seepage	0.25	 	
Hangaard	2	  Very limited:	İ	Very limited:	İ	  Very limited:	i
	ļ	Seepage	1.00		1.00	Cutbanks cave	1.00
	 	 	!	saturated zone Ponding	1.00	 	!
	<u> </u>			Seepage	0.51		
Trackles		 		 		 	
Kratka	l 1	Very limited:   Seepage	  1.00	Very limited:   Depth to	1.00	Very limited:   Cutbanks cave	1.00
	Ϊ			saturated zone			
	İ	İ	İ	Ponding	1.00	İ	İ
				Piping	0.97		
	I	I	I	Seepage	0.01	ļ.	1

Table 22.--Water Management--Continued

component name	Pct. of map	   Pond reservoir ar   	eas	   Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond 	s
	unit   	'		   Rating class and   limiting features	•	   Rating class and   limiting features	Value
I26A: Hamerly	     75   		      0.72   	saturated zone	      1.00    0.62	  Somewhat limited:   Slow refill   Cutbanks cave	    0.28  0.10
Vallers	   12     		    0.72     	saturated zone Ponding	  1.00    1.00  0.68	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Foxhome	   3     	  Very limited:   Seepage   	    1.00     	Depth to saturated zone	  0.96  0.87    0.03	!	  1.00  0.28  0.06
Grimstad	   3     	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.05	  Very limited:   Cutbanks cave   	  1.00 
Hamerly, very cobbly	   3     	•	    0.72   	saturated zone	    1.00    0.62	Cutbanks cave	  0.28  0.10
Strathcona	   3       	  Very limited:   Seepage       	  1.00       	saturated zone	  1.00    1.00  0.98  0.25	  Very limited:   Cutbanks cave       	  1.00     
Roliss, depressional	   1       	  Somewhat limited:   Seepage     	    0.72       	  Very limited:   Ponding   Depth to   saturated zone   Piping	  1.00  1.00    0.50	!	  0.28  0.10   
I27A: Hamre	   80       	•	  0.72     	Depth to saturated zone	  1.00  1.00    0.87	•	    0.10   
Northwood	   5       	  Very limited:   Seepage     	    1.00     	Depth to saturated zone	  1.00  1.00    0.13	 	  1.00     
Roliss	   5       	  Somewhat limited:   Seepage     	  0.72     	saturated zone Ponding	  1.00    1.00  0.50	Cutbanks cave	  0.28  0.10   

Table 22.--Water Management--Continued

component name	Pct.   Pond reservoir areas     of			Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond 	ls
	unit   			   Rating class and   limiting features	•	   Rating class and   limiting features	Value
I27A: Smiley	   5   6   	    Somewhat limited:   Seepage   	      0.72   	saturated zone	    1.00    1.00  0.71	  Somewhat limited:   Slow refill   Cutbanks cave 	    0.28  0.10
Cathro	   3 	  Very limited:   Seepage	    1.00	  Not rated 	   	  Somewhat limited:   Cutbanks cave	    0.10
Kratka	   2         	  Very limited:   Seepage     	    1.00       	saturated zone Ponding	  1.00    1.00  0.97  0.01	  Very limited:   Cutbanks cave       	  1.00       
I32A: Hilaire	   75   		    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06
Espelie	   12       		    1.00     	saturated zone	  1.00    1.00  0.13	  Very limited:   Cutbanks cave     	  1.00   
Huot	   5   	  Very limited:   Seepage   	    1.00   	saturated zone	    0.87    0.01	  Very limited:   Cutbanks cave   Depth to water 	  1.00  0.06
Flaming	   2   	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water 	  1.00  0.06
Foxlake	   2       	  Not limited     	         		!	  Somewhat limited:   Cutbanks cave   	  0.10   
Wheatville	   2 	  Very limited:   Seepage 	1.00	  Very limited:   Depth to   saturated zone	1.00	  Somewhat limited:   Cutbanks cave 	0.10
Thiefriver	   1       	   Very limited:   Seepage   	    1.00   	saturated zone		  Very limited:   Cutbanks cave   	  1.00   
Wyandotte	   1         	   Very limited:   Seepage       	  1.00         	saturated zone	  1.00    1.00  0.25  0.10	 	  1.00       

Table 22.--Water Management--Continued

component name	Pct. of map unit	 	eas	   Embankments, dikes   levees 	, and	Aquifer-fed excavated ponds		
	unit   		•	   Rating class and   limiting features	•	   Rating class and   limiting features		
I34A: Huot	     75   		:	saturated zone	0.87	  Very limited:   Cutbanks cave   Depth to water	    1.00  0.06	
Thiefriver	   12       		:	saturated zone Ponding	:	  Very limited:   Cutbanks cave     	  1.00   	
Hilaire	   5   	  Very limited:   Seepage   	:	saturated zone	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06	
Flaming	   3   	  Very limited:   Seepage   	    1.00   	saturated zone		  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06	
Foxlake	   3     	  Not limited     	         	saturated zone Ponding	!	  Somewhat limited:   Cutbanks cave   	  0.10   	
Ulen	   2     	  Very limited:   Seepage     	    1.00     	saturated zone	:	  Very limited:   Cutbanks cave     	  1.00   	
I36A: Kittson	   70     	'	•	  Somewhat limited:   Depth to   saturated zone   Piping	•	  Somewhat limited:   Slow refill   Cutbanks cave   Depth to water	  0.28  0.10  0.06	
Roliss	   12       	  Somewhat limited:   Seepage   	    0.72     	saturated zone Ponding	!	  Somewhat limited:   Slow refill   Cutbanks cave	  0.28  0.10 	
Hamerly	   5     	  Somewhat limited:   Seepage   	    0.72   	saturated zone	  1.00    0.62	Cutbanks cave	  0.28  0.10	
Kratka	   5         	  Very limited:   Seepage     	•	saturated zone Ponding Piping	  1.00    1.00  0.97  0.01	 	  1.00       	
Grimstad	3       	  Very limited:   Seepage   	  1.00     	saturated zone		  Very limited:   Cutbanks cave   	  1.00   	

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map unit		eas	Embankments, dikes   levees 	s, and	Aquifer-fed excavated ponds		
		Rating class and			•	   Rating class and   limiting features		
I36A: Strandquist	     3	    Very limited:   Seepage		    Very limited:   Depth to		    Very limited:   Cutbanks cave	      1.00	
	     	Beepage    -  -	     	saturated zone   Ponding   Piping   Seepage		 	     	
Foxhome	   2     	  Very limited:   Seepage   	    1.00     	Depth to	0.96	Cutbanks cave Slow refill Depth to water	  1.00  0.28  0.06	
I38A: Kratka	   70         			  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	1.00	į	    1.00   	
Smiley	   7     	  Somewhat limited:   Seepage   	1	  Very limited:   Depth to   saturated zone   Ponding   Piping	1.00	!	  0.28  0.10 	
Foldahl	   5     	  Very limited:   Seepage   	:	   Very limited:   Piping   Depth to   saturated zone   Seepage	1.00	  Very limited:   Cutbanks cave   Depth to water 	  1.00  0.06 	
Kratka, very cobbly	   5       	  Very limited:   Seepage   		   Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	1.00	į	  1.00     	
Strathcona	   5         	  Very limited:   Seepage   	  1.00       	  Very limited:   Depth to   saturated zone   Ponding   Piping   Piping		į	  1.00     	
Kratka, depressional	   3       	Very limited:   Seepage     	  1.00       	Very limited:   Ponding   Depth to   saturated zone   Piping   Seepage	  1.00  1.00    0.97  0.01	 	  1.00     	
Strandquist	   3         	  Very limited:   Seepage         	  1.00         	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.68	 	  1.00       	

Table 22.--Water Management--Continued

component name	Pct. of map unit	 	eas	   Embankments, dikes   levees 	, and	Aquifer-fed excavated ponds	
	   	'		Rating class and   limiting features	•	Rating class and   limiting features	Value
I38A: Linveldt	   2   1	    Very limited:   Seepage   	      1.00 		      0.99  0.87	•	    1.00  0.28  0.06
I39A: Linveldt	     65   	    Very limited:   Seepage   	      1.00 		•	  Very limited:   Cutbanks cave   Slow refill   Depth to water	    1.00  0.28  0.06
Kratka	   14         	  Very limited:   Seepage       	    1.00     	saturated zone Ponding Piping		  Very limited:   Cutbanks cave     	    1.00       
Reiner	   10     	  Somewhat limited:   Seepage   	    0.72   	saturated zone	0.87	  Somewhat limited:   Slow refill   Cutbanks cave   Depth to water	  0.28  0.10  0.06
Smiley	   5     	  Somewhat limited:   Seepage   	    0.72   	saturated zone Ponding	  1.00    1.00  0.71	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Eckvoll	   3   	  Very limited:   Seepage   	    1.00 	  Somewhat limited:   Depth to   saturated zone   Seepage	•	  Very limited:   Cutbanks cave   Slow refill   Depth to water	  1.00  0.28  0.06
Foldahl	   2     	  Very limited:   Seepage   	    1.00   	Depth to saturated zone	  1.00  0.87 	!	  1.00  0.06
Pelan	   1       	  Very limited:   Seepage     	    1.00     	    Somewhat limited:   Piping	į	•	  1.00  0.28  0.06
I41A: Markey	   80 	    Very limited:   Seepage 	    1.00	    Not rated   	     	    Very limited:   Cutbanks cave 	    1.00
Deerwood	12	  Very limited:   Seepage	1.00	  Not rated 	   	  Very limited:   Cutbanks cave	1.00
Berner	   2 	  Very limited:   Seepage	    1.00	  Not rated   	   	  Very limited:   Cutbanks cave	    1.00

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map unit		eas	Embankments, dikes   levees 	s, and	Aquifer-fed   excavated pond 	ls
	   			Rating class and   limiting features		Rating class and   limiting features	Value
I41A: Hamar	   2       	  Very limited:   Seepage     	      1.00   	  Very limited:   Depth to   saturated zone   Ponding   Seepage	    1.00    1.00  0.25	 	    1.00   
Seelyeville	2		    1.00	  Not rated 	   	  Somewhat limited:   Cutbanks cave	    0.10
Syrene	   2       	  Very limited:   Seepage   	    1.00     	Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.22	 	  1.00     
I42A: Markey, ponded	     85   	<u> </u>	    1.00	    Not rated   	 	    Very limited:   Cutbanks cave 	      1.00
Markey	5	  Very limited:   Seepage	1.00	  Not rated 	į Į	Very limited:   Cutbanks cave	1.00
Deerwood	4	  Very limited:   Seepage	1.00	  Not rated 		  Very limited:   Cutbanks cave	1.00
Seelyeville, ponded	   4 	  Very limited:   Seepage	1.00	  Not rated 	 	  Somewhat limited:   Cutbanks cave	0.10
Hamar	   1     	  Very limited:   Seepage     	    1.00   	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	 	    1.00   
Hangaard	   1     	   Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Ponding   Seepage	•	!	  1.00   
I43A:	 	 		 		 	
Mavie	70       	• -	  1.00     	Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.61	 	  1.00   
Vallers	   10       	'	    0.72     	  Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.68	Cutbanks cave	  0.28  0.10 
Strandquist	7   7         	  Very limited:   Seepage         	  1.00       	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.68	 	  1.00       

Table 22.--Water Management--Continued

component name	Pct. of map	Pond reservoir ar	eas	Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond	s
	unit   	'		   Rating class and   limiting features		   Rating class and   limiting features	Value
I43A: Strathcona	   5       	    Very limited:   Seepage     	      1.00     	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	    1.00    1.00  0.98  0.25	    Very limited:   Cutbanks cave     	      1.00     
Strathcona, depressional	   3       	    Very limited:   Seepage     	      1.00     	 	    1.00  1.00    0.98  0.25	    Very limited:   Cutbanks cave     	      1.00     
Foxhome	   2     	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Piping   Depth to   saturated zone   Seepage	  0.96  0.87    0.03	!	  1.00  0.28  0.06
Karlsruhe	   2     	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.54	  Very limited:   Cutbanks cave   	    1.00 
Grimstad	   1     	  Very limited:   Seepage   	    1.00   	   Very limited:   Depth to   saturated zone   Seepage	    1.00    0.05	  Very limited:   Cutbanks cave   	    1.00   
I44A: Newfolden	     75   	    Somewhat limited:   Seepage   	      0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.48	  Somewhat limited:   Slow refill   Cutbanks cave   Depth to water	    0.28  0.10  0.06
Smiley	   12       	  Somewhat limited:   Seepage     	    0.72     	  Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.71	  Somewhat limited:   Slow refill   Cutbanks cave   	  0.28  0.10 
Boash	   8   	  Somewhat limited:   Seepage   		Depth to saturated zone	1.00	  Somewhat limited:   Slow refill   Cutbanks cave	  0.28  0.10
Linveldt	   4   		    1.00   		0.99	   Very limited:   Cutbanks cave   Slow refill   Depth to water	  1.00  0.28  0.06
Hapludolls	   1     		    0.72  0.01 		    1.00   	  Very limited:   Depth to water   	    1.00   

Table 22.--Water Management--Continued

component name	Pct. of map	 	Embankments, dikes	, and	Aquifer-fed excavated pond	ls	
	unit   	'	•	Rating class and limiting features		   Rating class and   limiting features	
I45A: Northwood	   75     	! -	      1.00   		    1.00  1.00    0.13	    Very limited:   Cutbanks cave     	      1.00   
Hamre	   10       	•	    0.72     		  1.00  1.00    0.87	   Somewhat limited:   Cutbanks cave   	  0.10   
Berner	   5 	  Very limited:   Seepage	    1.00	  Not rated 	   	  Very limited:   Cutbanks cave	1
Kratka	   5     	  Very limited:   Seepage       	    1.00       	saturated zone Ponding	  1.00    1.00  0.97  0.01	  Very limited:   Cutbanks cave       	  1.00     
Strandquist	   3       	! -	    1.00       	saturated zone Ponding Piping	  1.00    1.00  0.97  0.68	  Very limited:   Cutbanks cave     	  1.00     
Roliss	   2       	  Somewhat limited:   Seepage     	    0.72     	saturated zone Ponding	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
I46A: Pits	     85	    Not rated	 	  Not rated	<u> </u> 	    Not rated	<u> </u>
Udipsamments	   10   	:	    1.00  0.32	  Somewhat limited:   Seepage 	    0.79 	  Very limited:   Depth to water 	    1.00
Radium	   2   	  Very limited:   Seepage   	    1.00 		    0.79  0.50	!	  1.00  0.22
Maddock	   1 	  Very limited:   Seepage	    1.00	  Somewhat limited:   Seepage	    0.25	  Very limited:   Depth to water	    1.00
Marquette	   1 	  Very limited:   Seepage	    1.00	  Somewhat limited:   Seepage	    0.07	  Very limited:   Depth to water	    1.00
Sandberg	   1 	  Very limited:   Seepage	    1.00	  Somewhat limited:   Seepage	    0.51	  Very limited:   Depth to water	    1.00

Table 22.--Water Management--Continued

component name	Pct.   Pond reservoir areas   of   map   unit			Embankments, dikes   levees 	, and	Aquifer-fed excavated ponds		
	unit   	'		   Rating class and   limiting features		Rating class and limiting features	Value	
I47A: Poppleton	     75   	! - T	      1.00 	saturated zone	      0.87    0.25	    Very limited:   Cutbanks cave   Depth to water	    1.00  0.06	
Flaming	   12     	! - T	    1.00   	saturated zone	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06	
Garborg	   5   	  Very limited:   Seepage   	    1.00   	saturated zone	    1.00    0.25	  Very limited:   Cutbanks cave   	    1.00 	
Hamar	   3     	  Very limited:   Seepage     	    1.00     	saturated zone Ponding	  1.00    1.00  0.25	  Very limited:   Cutbanks cave     	  1.00   	
Radium	   2     	  Very limited:   Seepage   	    1.00   	!	    0.79  0.50	!	  1.00  0.22	
Ulen	   2     	  Very limited:   Seepage   	    1.00   	saturated zone	    1.00    0.25	  Very limited:   Cutbanks cave   	    1.00 	
Maddock	   1   	  Very limited:   Seepage 	    1.00	  Somewhat limited:   Seepage 	    0.25 	  Very limited:   Depth to water 	    1.00	
I48A: Radium	   75     	  Very limited:   Seepage 	    1.00 	!	    0.79  0.50 	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.22	
Sandberg	   7 	  Very limited:   Seepage	1.00	  Somewhat limited:   Seepage	    0.51	  Very limited:   Depth to water	1.00	
Oylen	   5     	  Very limited:   Seepage   	  1.00 		  0.72  0.50 	•	  1.00  0.22	
Flaming	   4     	  Very limited:   Seepage   	    1.00   	saturated zone	    0.87    0.25	Depth to water	  1.00  0.06	
Garborg	   3   	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.25	İ	    1.00 	

Table 22.--Water Management--Continued

component name	Pct. of map	 	eas	   Embankments, dikes   levees 	, and	   Aquifer-fed   excavated pond 	s
	unit   	'		   Rating class and   limiting features	•	   Rating class and   limiting features	Value
I48A: Hangaard	   3   1   	    Very limited:   Seepage   	      1.00   	saturated zone	    1.00    1.00  0.51	    Very limited:   Cutbanks cave   	      1.00   
Hamar	   2     	  Very limited:   Seepage   	    1.00   	saturated zone	  1.00    1.00  0.25	  Very limited:   Cutbanks cave     	    1.00   
Poppleton	   1     	  Very limited:   Seepage   	    1.00   	saturated zone	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06
I50A: Reiner	     70     	!	      0.72   	saturated zone	    0.87    0.66	Cutbanks cave	    0.28  0.10  0.06
Smiley	   12       	•	    0.72   	saturated zone Ponding	  1.00    1.00  0.71	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Reiner, very cobbly	   7     	  Somewhat limited:   Seepage   	    0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.66	Cutbanks cave	  0.28  0.10  0.06
Linveldt	   5     	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Piping   Depth to   saturated zone	    0.99  0.87	•	  1.00  0.28  0.06
Eckvoll	   3   	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	Slow refill	  1.00  0.28  0.06
Kratka	   3         	  Very limited:   Seepage       	    1.00         	saturated zone Ponding Piping	  1.00    1.00  0.97  0.01	  Very limited:   Cutbanks cave       	    1.00       
I51A: Reiner	   65       		      0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.70	Cutbanks cave	    0.28  0.10  0.06

Table 22.--Water Management--Continued

component name	Pct. of map	 	eas	Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond 	ls
	unit 	'	Value		Value	   Rating class and	Value
	<u></u>	limiting features	•	limiting features		limiting features	1
I51A: Smiley	     9 	    Somewhat limited:   Seepage 	      0.72 	    Very limited:   Depth to   saturated zone	      1.00	    Somewhat limited:   Slow refill   Cutbanks cave	      0.28  0.10
		 	 	:	1.00	 	
Reiner fine sandy	l I	 	 	 	l I	 	
loam	8	Somewhat limited:	i	Somewhat limited:	i	Somewhat limited:	i
	i	Seepage	0.72	Depth to	0.87	Slow refill	0.28
	İ	İ	İ	saturated zone	İ	Cutbanks cave	0.10
	İ	ĺ	İ	Piping	0.66	Depth to water	0.06
Linveldt	   7	  Very limited:	 	  Somewhat limited:	 	  Very limited:	
	i .	! -	1.00		0.99		1.00
	i		i		0.87	!	0.28
	į	į	į	saturated zone	į	Depth to water	0.06
Kratka	   5	  Very limited:	 	  Very limited:	 	  Very limited:	l I
	i	! -	1.00	! -	1.00	! • •	1.00
	į	İ	į	saturated zone	į	İ	į
	ĺ	İ	ĺ	Ponding	1.00	İ	İ
				Piping	0.97		
				Seepage	0.01		
Eckvoll	   3	  Very limited:	 	  Somewhat limited:	 	  Very limited:	
	İ	Seepage	1.00	Depth to	0.87	Cutbanks cave	1.00
	ĺ	İ	ĺ	saturated zone	ĺ	Slow refill	0.28
				Seepage	0.25	Depth to water	0.06
Reiner, very cobbly	   3	  Somewhat limited:	 	  Somewhat limited:	 	  Somewhat limited:	
	ĺ	Seepage	0.72	Depth to	0.87	Slow refill	0.28
				saturated zone		Cutbanks cave	0.10
	 	 	 	Piping	0.66	Depth to water	0.06
I52A:	! 	! 		! 		 	
Reis	55	Not limited	ĺ	Very limited:	ĺ	Very limited:	Ì
		<u> </u>		! -	1.00	!	1.00
			ļ	saturated zone		Cutbanks cave	0.10
	 	 	 	Hard to pack	0.88 	 	
Clearwater	30	  Not limited		  Very limited:		  Very limited:	i
					1.00	•	1.00
			ļ	saturated zone		Cutbanks cave	0.10
					1.00		!
	 	 	 	Hard to pack	0.88 	 	
Clearwater, very	į	İ	į	İ	į	İ	İ
cobbly	5	Not limited		Very limited:	!	Very limited:	!
					1.00	•	1.00
	 	 	1	saturated zone	  1 00	Cutbanks cave	0.10
		 		· -	1.00  0.88	!	
	į		į	_	į		1
Clearwater,		  Not limited		 		  Compathat limited:	
depressional	ک <sub>ا</sub> ا	  NOC TIMITEG		Very limited:   Ponding	  1.00	Somewhat limited:   Slow refill	0.46
	! 	1 		· -	1.00	!	0.10
	i	 	i	saturated zone			
	i	İ	i		0.76	İ	i
		:		-			:

Table 22.--Water Management--Continued

component name	Pct.   Pond reservoir areas   of    map    unit			   Embankments, dikes   levees 	, and	   Aquifer-fed   excavated pond 	s
	unit   	'		   Rating class and   limiting features		   Rating class and   limiting features	•
I52A: Espelie	   3     	    Very limited:   Seepage     	      1.00   	saturated zone Ponding	    1.00    1.00  0.13	    Very limited:   Cutbanks cave     	      1.00   
Hattie	   3     	  Not limited   	       	saturated zone	    0.99    0.88	Cutbanks cave	  1.00  0.10  0.01
Wyandotte	   1         	  Very limited:   Seepage       	  1.00         	saturated zone Ponding Seepage	  1.00    1.00  0.25  0.10	  Very limited:   Cutbanks cave       	  1.00       
I53A: Roliss	   75       		    0.72     	saturated zone	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Kratka	   8       	  Very limited:   Seepage     	    1.00       	saturated zone Ponding	  1.00    1.00  0.97  0.01	  Very limited:   Cutbanks cave     	  1.00       
Roliss, very cobbly	   7     	  Somewhat limited:   Seepage   	    0.72     	saturated zone Ponding	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Kittson	   5     	  Somewhat limited:   Seepage   	    0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.78	  Somewhat limited:   Slow refill   Cutbanks cave   Depth to water	  0.28  0.10  0.06
Roliss, depressional	   3     	  Somewhat limited:   Seepage   	    0.72     	  Very limited:   Ponding   Depth to   saturated zone   Piping	  1.00  1.00    0.50	  Somewhat limited:   Slow refill   Cutbanks cave	  0.28  0.10 
Smiley	   2         	  Somewhat limited:   Seepage       	    0.72     	  Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.71	  Somewhat limited:   Slow refill   Cutbanks cave   	  0.28  0.10   

Table 22.--Water Management--Continued

component name	Pct. of map		eas	   Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	s
	unit   			   Rating class and   limiting features	•	Rating class and limiting features	Value
I54A: Roliss, depressional	     80     	•	      0.72   	  Very limited:   Ponding   Depth to   saturated zone   Piping	    1.00  1.00    0.50	    Somewhat limited:   Slow refill   Cutbanks cave 	      0.28  0.10
Roliss	   12       	'	    0.72     	  Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Hamre	   5     	  Somewhat limited:   Seepage 	    0.72     	  Very limited:   Ponding   Depth to   saturated zone   Piping	  1.00  1.00    0.87	  Somewhat limited:   Cutbanks cave   	    0.10   
Kratka	   3         	Very limited:   Seepage 	    1.00       	   Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.01	   Cutbanks cave   	    1.00       
I55A: Rosewood	   75       	_	    1.00   	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	  Very limited:   Cutbanks cave   	    1.00   
Ulen	   10     	   Very limited:   Seepage 	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	  1.00    0.25	  Very limited:   Cutbanks cave   	    1.00   
Hamar	   6       	   Very limited:   Seepage 	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	  Very limited:   Cutbanks cave   	    1.00     
Rosewood, depressional	   3     	   Very limited:   Seepage 	    1.00   	  Very limited:   Ponding   Depth to   saturated zone   Seepage	  1.00  1.00    0.25	  Very limited:   Cutbanks cave   	    1.00   
Syrene	   3     	Very limited:   Seepage 	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.22	   Very limited:   Cutbanks cave   	    1.00   
Karlsruhe	   1     	   Very limited:   Seepage   	    1.00     	  Very limited:   Depth to   saturated zone   Seepage	  1.00    0.54	  Very limited:   Cutbanks cave     	    1.00   

Table 22.--Water Management--Continued

component name	Pct. of map unit	 	eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated ponds	
	unii c   	'		Rating class and   limiting features		Rating class and   limiting features	Value
I55A: Strathcona	   1     	    Very limited:   Seepage     	      1.00     	saturated zone	    1.00    1.00  0.98  0.25	    Very limited:   Cutbanks cave     	      1.00     
Thiefriver	   1     		    1.00     	saturated zone	  1.00    1.00  0.01	  Very limited:   Cutbanks cave   	    1.00   
I57B: Sandberg	     50		      1.00	    Somewhat limited:   Seepage	      0.51	    Very limited:   Depth to water	1
Radium	   25   		    1.00   	  Somewhat limited:   Seepage   Depth to   saturated zone	    0.79  0.50	•	  1.00  0.22
Sioux	   8 	  Very limited:   Seepage	    1.00	  Somewhat limited:   Seepage	    0.64	  Very limited:   Depth to water	1.00
Oylen	   7   	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Seepage   Depth to   saturated zone	    0.72  0.50 	•	  1.00  0.22
Flaming	   5   	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	  Very limited:   Cutbanks cave   Depth to water 	  1.00  0.06
Garborg	   5     	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.25	  Very limited:   Cutbanks cave   	  1.00   
I58A: Seelyeville	     90 		    1.00	    Not rated 	   	  Somewhat limited:   Cutbanks cave	    0.10
Cathro	   3 	  Very limited:   Seepage	    1.00	  Not rated 	   	  Somewhat limited:   Cutbanks cave	    0.10
Dora	   3 	  Very limited:   Seepage	    1.00	  Not rated 	   	  Somewhat limited:   Cutbanks cave	    0.10
Markey	   3 	  Very limited:   Seepage	    1.00	  Not rated 	   	  Very limited:   Cutbanks cave	1.00
Berner	   1 	  Very limited:   Seepage	    1.00	  Not rated 	   	  Very limited:   Cutbanks cave	1.00

Table 22.--Water Management--Continued

component name	  Pct.   of  map  unit		eas	   Embankments, dikes   levees 	, and	   Aquifer-fed   excavated pond 	ls
	unitc   			Rating class and   limiting features		!	Value
I59A: Smiley	     65     	    Somewhat limited:   Seepage   	      0.72   	saturated zone Ponding	    1.00    1.00  0.71	    Somewhat limited:   Slow refill   Cutbanks cave   	    0.28  0.10 
Smiley, very cobbly	   10     	!	    0.72     	saturated zone Ponding	  1.00    1.00  0.71	Cutbanks cave	  0.28  0.10 
Kratka	   9       	  Very limited:   Seepage     	    1.00     	saturated zone Ponding Piping	  1.00    1.00  0.97	  Very limited:   Cutbanks cave     	  1.00       
Roliss	   5     	  Somewhat limited:   Seepage   	    0.72     	saturated zone Ponding	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Reiner	   4   	  Somewhat limited:   Seepage   	    0.72   	saturated zone		  Somewhat limited:   Slow refill   Cutbanks cave   Depth to water	  0.28  0.10  0.06
Linveldt	   3     	• -	    1.00     		    0.99  0.87 	•	  1.00  0.28  0.06
Smiley, depressional	   3     	  Somewhat limited:   Seepage   	    0.72     	Depth to saturated zone	  1.00  1.00    0.50	!	  0.28  0.10 
Strandquist	   1         	  Very limited:   Seepage       	 	saturated zone Ponding	  1.00  1.00  1.00  0.97  0.68	  Very limited:   Cutbanks cave     	  1.00         
I60A: Smiley, depressional	   80       	  Somewhat limited:   Seepage     	    0.72     		  1.00  1.00    0.50	•	  0.28  0.10 

Table 22.--Water Management--Continued

component name	Pct. of map	Pond reservoir ard	eas	Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond	s
	unit 	'	•	   Rating class and   limiting features		   Rating class and   limiting features	•
I60A: Smiley	       10	    Somewhat limited:	 	Very limited:	İ	      Somewhat limited:	
	       	 	       		  1.00  0.71	!	0.10
Hamre	5       	Somewhat limited:   Seepage	  0.72     	Depth to saturated zone	1.00  1.00	Somewhat limited:   Cutbanks cave     	  0.10     
Kratka	           	Very limited:   Seepage	  1.00       	saturated zone Ponding Piping		į	  1.00       
I61A: Strandquist	   70         		    1.00       	saturated zone Ponding Piping	,	į	    1.00     
Mavie	   8     	  Very limited:   Seepage   	  1.00     	saturated zone Ponding	1.00	į	  1.00   
Roliss	   7       	  Somewhat limited:   Seepage     	    0.72     	saturated zone Ponding	  1.00    1.00  0.50	Cutbanks cave	  0.28  0.10 
Kratka	   5       	Very limited:   Seepage	  1.00       	Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.01	Very limited:   Cutbanks cave       	  1.00       
Foxhome	4         	  Very limited:   Seepage     	  1.00       	   Piping   Depth to   saturated zone   Seepage	  0.96  0.87    0.03	•	  1.00  0.28  0.06
Hangaard	3       	   Very limited:   Seepage       	  1.00       	Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.51	   Very limited:   Cutbanks cave       	  1.00     

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map unit	 	eas	Embankments, dikes   levees 	Embankments, dikes, and   levees 		ls
	   	'	Value	Rating class and   limiting features	Value	Rating class and   limiting features	Value
I61A: Northwood	   3     	    Very limited:   Seepage   	      1.00   	  Very limited:   Ponding   Depth to   saturated zone   Seepage	    1.00  1.00    0.13	    Very limited:   Cutbanks cave     	      1.00   
I62A: Syrene	   70       	! -	    1.00   	  Very limited:   Depth to   saturated zone   Ponding   Seepage	    1.00    1.00  0.22	  Very limited:   Cutbanks cave     	    1.00   
Rosewood	   11       		    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	 	  1.00   
Hangaard	   5     	  Very limited:   Seepage     	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.51	  Very limited:   Cutbanks cave     	    1.00   
Karlsruhe	   4   	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.54	  Very limited:   Cutbanks cave   	    1.00 
Deerwood	   3 	  Very limited:   Seepage	    1.00	  Not rated   	   	  Very limited:   Cutbanks cave	    1.00
Hamar	       	Very limited:   Seepage    -  -	  1.00     	Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	Very limited:   Cutbanks cave     	1.00
Strandquist	2         	  Very limited:   Seepage       	  1.00       	   Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.68	   	  1.00     
Radium	   1   	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Seepage   Depth to   saturated zone	    0.79  0.50	•	  1.00  0.22
Wyandotte	   1         	  Very limited:   Seepage       	    1.00         	   Very limited:   Depth to   saturated zone   Ponding   Seepage   Piping	  1.00    1.00  0.25  0.10	 	  1.00       

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map	 	eas	Embankments, dikes	, and	Aquifer-fed excavated pond	ls
	unit   	Rating class and limiting features	Value	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I63A: Thiefriver	   70       	! =	      1.00   	  Very limited:   Depth to   saturated zone   Ponding   Seepage	    1.00    1.00  0.01	    Very limited:   Cutbanks cave   	      1.00   
Espelie	   10       		    1.00     	  Very limited:	  1.00    1.00  0.13	  Very limited:   Cutbanks cave   	    1.00   
Foxlake	   7     	  Not limited       	         	  Very limited:   Depth to   saturated zone   Ponding   Hard to pack	  1.00    1.00  0.41	  Somewhat limited:   Cutbanks cave   	  0.10   
Huot	   5     	  Very limited:   Seepage   	    1.00   		  0.87    0.01	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06
Clearwater, depressional	   3     	 	         	  Very limited:   Ponding   Depth to   saturated zone   Hard to pack	    1.00  1.00    0.76	:	    0.46  0.10 
Rosewood	   3     	  Very limited:   Seepage     	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	  Very limited:   Cutbanks cave     	  1.00   
Ulen	   1   	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	  1.00    0.25	  Very limited:   Cutbanks cave   	  1.00 
Wyandotte	   1         	  Very limited:   Seepage       	  1.00         	  Very limited:   Depth to   saturated zone   Ponding   Seepage   Piping	  1.00    1.00  0.25  0.10	  Very limited:   Cutbanks cave       	  1.00       
I64A: Ulen	70   70   	  Very limited:   Seepage   	    1.00 	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.25	  Very limited:   Cutbanks cave 	    1.00 
Rosewood	   10         	  Very limited:   Seepage       	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	  Very limited:   Cutbanks cave     	  1.00     

Table 22.--Water Management--Continued

component name	  Pct.   of  map		eas	   Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit   			   Rating class and   limiting features		Rating class and limiting features	Value
I64A: Flaming	     8   	    Very limited:   Seepage   	      1.00 	  Somewhat limited:   Depth to   saturated zone   Seepage	      0.87    0.25	   Very limited:   Cutbanks cave   Depth to water	    1.00  0.06
Karlsruhe	   5   	  Very limited:   Seepage   	    1.00 	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.54	   Very limited:   Cutbanks cave   	    1.00 
Radium	   3   	  Very limited:   Seepage   	    1.00 	  Somewhat limited:   Seepage   Depth to   saturated zone	    0.79  0.50	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.22
Strathcona	   2         	  Very limited:   Seepage       	    1.00       	saturated zone Ponding	  1.00    1.00  0.98  0.25	  Very limited:   Cutbanks cave     	  1.00     
Thiefriver	   2       	  Very limited:   Seepage     	    1.00     	saturated zone	  1.00    1.00  0.01	   Cutbanks cave     	  1.00     
I65A: Ulen	     70     	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.25	  Very limited:   Cutbanks cave 	    1.00 
Rosewood	   10       		    1.00     	saturated zone	  1.00    1.00  0.25	   Very limited:   Cutbanks cave     	  1.00   
Flaming	   6     	  Very limited:   Seepage   	    1.00   	saturated zone	    0.87    0.25	   Very limited:   Cutbanks cave   Depth to water	  1.00  0.06
Poppleton	   4     	  Very limited:   Seepage 	    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	   Very limited:   Cutbanks cave   Depth to water	  1.00  0.06
Karlsruhe	   3     	  Very limited:   Seepage   	    1.00   	saturated zone	 	  Very limited:   Cutbanks cave   	    1.00 
Radium	   3     	  Very limited:   Seepage   	    1.00   	!	    0.79  0.50 		  1.00  0.22 

Table 22.--Water Management--Continued

component name	Pct.   Of   map   unit	 	eas	   Embankments, dikes   levees 	, and	Aquifer-fed   excavated pond 	ls
	unite   	'	Value	Rating class and limiting features		Rating class and   limiting features	Value
I65A: Strathcona	   2       	    Very limited:   Seepage     	      1.00     	saturated zone Ponding	    1.00    1.00  0.98  0.25	    Very limited:   Cutbanks cave     	      1.00     
Thiefriver	   2       	  Very limited:   Seepage   	    1.00     	  Very limited:   Depth to   saturated zone	į	  Very limited:   Cutbanks cave   	    1.00     
I66A: Vallers	   75     	•	    0.72   	saturated zone	  1.00    1.00  0.68	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10
Vallers, very cobbly	   7     	  Somewhat limited:   Seepage   	    0.72     	saturated zone Ponding	  1.00    1.00  0.68	Cutbanks cave	  0.28  0.10 
Hamerly	   6     	  Somewhat limited:   Seepage   	    0.72   	  Very limited:   Depth to   saturated zone   Piping	    1.00    0.62	Cutbanks cave	  0.28  0.10
Grimstad	   3   	  Very limited:   Seepage   	    1.00 	saturated zone	    1.00    0.05	  Very limited:   Cutbanks cave   	    1.00 
Mavie	   3     	  Very limited:   Seepage   	    1.00     	saturated zone	  1.00    1.00  0.61	 	  1.00   
Roliss, depressional	   3     	  Somewhat limited:   Seepage   	    0.72     	Depth to saturated zone	1.00	Cutbanks cave	  0.28  0.10 
Strathcona	   3         	  Very limited:   Seepage       	    1.00         	saturated zone Ponding Piping	  1.00    1.00  0.98  0.25	 	    1.00       
I67A: Wheatville	   70   		    1.00   	  Very limited:   Depth to   saturated zone	    1.00   	  Somewhat limited:   Cutbanks cave   	0.10

Table 22.--Water Management--Continued

component name	Pct. of map	 	eas	Embankments, dikes	, and	Aquifer-fed excavated pond	s
	unit   		•	   Rating class and   limiting features	Value	   Rating class and   limiting features	Value
I67A: Augsburg	     13     		      1.00   	    Very limited:   Depth to   saturated zone   Ponding   Piping	    1.00    1.00  0.05	    Very limited:   Cutbanks cave   	      1.00   
Glyndon	   8   	  Very limited:   Seepage   	    1.00 	  Very limited:   Depth to   saturated zone   Piping	    1.00    1.00	  Very limited:   Cutbanks cave   	    1.00 
Foxlake	   5     	  Not limited   	       	   Very limited:   Depth to   saturated zone   Ponding   Hard to pack	  1.00    1.00  0.41	  Somewhat limited:   Cutbanks cave   	  0.10   
Hilaire	   2   	  Very limited:   Seepage   	    1.00 	  Somewhat limited:   Depth to   saturated zone   Seepage	  0.87    0.25	  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06
Ulen	   2   	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.25	  Very limited:   Cutbanks cave   	    1.00 
I69A: Wyandotte	     65       		      1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage   Piping	    1.00    1.00  0.25  0.10	  Very limited:   Cutbanks cave     	      1.00     
Foxlake	   10       	  Not limited     	         	  Very limited:   Depth to   saturated zone   Ponding   Hard to pack	  1.00    1.00  0.41	  Somewhat limited:   Cutbanks cave   	    0.10   
Espelie	   8       	  Very limited:   Seepage     	  1.00       	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.13	  Very limited:   Cutbanks cave     	  1.00     
Clearwater, depressional	   5     	  Not limited     	       	  Very limited:   Ponding   Depth to   saturated zone   Hard to pack	    1.00  1.00    0.76	  Somewhat limited:   Slow refill   Cutbanks cave	  0.46  0.10 
Thiefriver	   5       	  Very limited:   Seepage       	  1.00       	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.01	  Very limited:   Cutbanks cave     	  1.00       

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map	Pond reservoir ar	eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit			<u> </u>		<u> </u>	
	 	Rating class and limiting features	Value 	Rating class and   limiting features	Value	Rating class and limiting features	Value
I69A:							
Karlsruhe	   4   	  Very limited:   Seepage 	    1.00 	  Very limited:   Depth to   saturated zone	    1.00	  Very limited:   Cutbanks cave 	    1.00 
	 	 	l I	Seepage	0.54	l I	
Syrene	   3     	  Very limited:   Seepage   	  1.00   	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.22	  Very limited:   Cutbanks cave   	  1.00   
	į		į		İ		į
I70A: Strathcona	   70         	• -	    1.00       	  Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.98  0.25	  Very limited:   Cutbanks cave     	  1.00     
Kratka	   10         	<u> </u>	    1.00     	Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.01	Very limited: Cutbanks cave	  1.00     
Roliss	   6       	  Somewhat limited:   Seepage   	    0.72     	  Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave   	  0.28  0.10 
Grimstad	   5   	  Very limited:   Seepage   	    1.00   	  Very limited:   Depth to   saturated zone   Seepage	    1.00    0.05	  Very limited:   Cutbanks cave   	    1.00 
Mavie	   3     	  Very limited:   Seepage     	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.61	  Very limited:   Cutbanks cave     	  1.00     
Rosewood	   3     	  Very limited:   Seepage   	    1.00     	  Very limited:   Depth to   saturated zone   Ponding   Seepage	  1.00    1.00  0.25	  Very limited:   Cutbanks cave     	    1.00   
Strathcona, depressional	   3   1       1	  Very limited:   Seepage   	      1.00     	Very limited: Ponding Depth to saturated zone Piping Seepage	    1.00  1.00    0.98  0.25	  Very limited:   Cutbanks cave     	    1.00     

Table 22.--Water Management--Continued

Map symbol and component name	Pct. of map	 	eas	   Embankments, dikes   levees	, and	Aquifer-fed   excavated pond 	s
	unit   	'	Value	   Rating class and   limiting features	Value	Rating class and limiting features	Value
T713.							
I71A: Berner, ponded	   45 	  Very limited:   Seepage	1.00	  Not rated   	   	  Very limited:   Cutbanks cave	1.00
Cathro, ponded	   45 	  Very limited:   Seepage	1.00	  Not rated 	   	  Somewhat limited:   Cutbanks cave	0.10
Hamre	   2 	  Somewhat limited:   Seepage	0.72	  Not rated 	   	  Somewhat limited:   Cutbanks cave	0.10
Kratka	   2       	  Very limited:   Seepage       	  1.00     	   Very limited:   Depth to   saturated zone   Ponding   Piping   Seepage	  1.00    1.00  0.97  0.01	  Very limited:   Cutbanks cave       	  1.00     
Northwood	   2     	  Very limited:   Seepage     	    1.00   	Very limited:   Ponding   Depth to   saturated zone   Seepage	  1.00  1.00    0.13	  Very limited:   Cutbanks cave   	  1.00   
Roliss	   2     	  Somewhat limited:   Seepage   	    0.72   	saturated zone Ponding	  1.00    1.00  0.50	   Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Seelyeville, ponded	   2 	  Very limited:   Seepage	1.00	  Not rated 	   	  Somewhat limited:   Cutbanks cave	0.10
I72A: Pelan	   65       	  Very limited:   Seepage     	      1.00   	  Somewhat limited:   Piping   Depth to   saturated zone   Seepage	    0.98  0.87    0.51	  Very limited:   Cutbanks cave   Slow refill   Depth to water	    1.00  0.28  0.06
Smiley	   10       	  Somewhat limited:   Seepage   	    0.72   	•	  1.00    1.00  0.71	Cutbanks cave	  0.28  0.10 
Linveldt	   8   	  Very limited:   Seepage   	    1.00   	Piping	0.99	Slow refill	  1.00  0.28  0.06
Kratka	   5         	  Very limited:   Seepage         	    1.00         	saturated zone Ponding		ĺ	    1.00       

Table 22.--Water Management--Continued

component name	Pct. of map		eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit			   Rating class and   limiting features		   Rating class and   limiting features	Value
I72A: Strandquist	5	    Very limited:   Seepage     	      1.00     	saturated zone	    1.00    1.00  0.97  0.68	İ	      1.00     
Reiner	4	  Somewhat limited:   Seepage   	    0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.66	Cutbanks cave	  0.28  0.10  0.06
Eckvoll	   3 	  Very limited:   Seepage   	    1.00   	  Somewhat limited:   Depth to   saturated zone   Seepage	    0.87    0.25	Slow refill	  1.00  0.28  0.06
I73A: Boash	   75 	1	      0.72   	  Very limited:   Depth to   saturated zone   Ponding	    1.00    1.00	  Somewhat limited:   Slow refill   Cutbanks cave	  0.28  0.10
Clearwater	   8   	  Not limited     	         	   Very limited:   Depth to   saturated zone   Ponding   Hard to pack	  1.00    1.00  0.88	  Very limited:   Slow refill   Cutbanks cave 	  1.00  0.10 
Roliss	8   	  Somewhat limited:   Seepage   	    0.72     	  Very limited:   Depth to   saturated zone   Ponding   Piping	  1.00    1.00  0.50	  Somewhat limited:   Slow refill   Cutbanks cave 	  0.28  0.10 
Clearwater, depressional	5	  Not limited     	         	  Very limited:   Ponding   Depth to   saturated zone   Hard to pack	  1.00  1.00    0.76	Cutbanks cave	  0.46  0.10
Kittson	2	  Somewhat limited:   Seepage 	    0.72   	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.78	Cutbanks cave	  0.28  0.10  0.06
Newfolden	   2 	  Somewhat limited:   Seepage   	    0.72     	  Somewhat limited:   Depth to   saturated zone   Piping	    0.87    0.48	Cutbanks cave	  0.28  0.10  0.06
I74A:			i		i		i
Urban land	65	Not limited		Not rated		Not rated	
Endoaquents	35	  Not limited 	   	  Not rated 	   	  Not rated 	 

Table 22.--Water Management--Continued

component name	Pct. of map	 	eas	Embankments, dikes   levees 	, and	Aquifer-fed excavated pond	ls
	unit   	'	•	   Rating class and   limiting features		   Rating class and   limiting features	Value
	į.		į.	İ	ļ		!
I75A: Radium	   40     		    1.00 		    0.79  0.50 		  1.00  0.22
Sandberg	   20 	! -		  Somewhat limited:   Seepage	    0.51	  Very limited:   Depth to water	1.00
Garborg	   15     		    1.00   	saturated zone		  Very limited:   Cutbanks cave   	    1.00 
Oylen	   10   	  Very limited:   Seepage   	    1.00   			  Very limited:   Cutbanks cave   Depth to water	  1.00  0.22
Flaming	   5   	  Very limited:   Seepage   	    1.00   	saturated zone		  Very limited:   Cutbanks cave   Depth to water	  1.00  0.06
Karlsruhe	   3   	  Very limited:   Seepage   	    1.00   	saturated zone		  Very limited:   Cutbanks cave   	    1.00 
Venlo	   3     	  Very limited:   Seepage     	    1.00     	:	    1.00  1.00    0.25		    1.00   
Hangaard	   2     	  Very limited:   Seepage     	    1.00     	saturated zone Ponding	  1.00    1.00  0.51	   Very limited:   Cutbanks cave     	  1.00   
Sioux	   2 	•		  Somewhat limited:   Seepage		  Very limited:   Depth to water	1.00
M-W: Miscellaneous water	    100	    Not rated 	     	    Not rated 	     	    Not rated 	     
W: Water	  100	  Not rated 	 	    Not rated	 	    Not rated	İ

# **Soil Properties**

Data relating to soil properties are collected during the course of the soil survey. The data and the estimates of soil and water features, listed in tables, are explained on the following pages.

Soil properties are determined by field examination of the soils and by laboratory index testing of some benchmark soils. Established standard procedures are followed. During the survey, many shallow borings are made and examined to identify and classify the soils and to delineate them on the soil maps. Samples are taken from some typical profiles and tested in the laboratory to determine grain-size distribution, plasticity, and compaction characteristics.

Estimates of soil properties are based on field examinations, on laboratory tests of samples from the survey area, and on laboratory tests of samples of similar soils in nearby areas. Tests verify field observations, verify properties that cannot be estimated accurately by field observation, and help to characterize key soils.

The estimates of soil properties shown in the tables include the range of grain-size distribution and Atterberg limits, the engineering classification, and the physical and chemical properties of the major horizons of each soil. Pertinent soil and water features also are given.

## **Engineering Index Properties**

Table 23 gives estimates of the engineering classification and of the range of index properties for the major horizons of each soil. Most soils have horizons of contrasting properties within the upper 5 or 6 feet.

*Depth* to the upper and lower boundaries of each horizon is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is as much as 15 percent, an

appropriate modifier is added, for example, "gravelly." Textural terms are defined in the Glossary.

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2001) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2000).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to grain-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, SP-SM.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of grain-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3

inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and plasticity index (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

The estimates of grain-size distribution, liquid limit, and plasticity index are generally rounded to the nearest 5 percent. Thus, if the ranges of gradation and Atterberg limits extend a marginal amount (1 or 2 percentage points) across classification boundaries, the classification in the marginal zone is omitted in the table.

## **Physical and Chemical Properties**

Tables 24 and 25 show estimates of some characteristics and features that affect soil behavior. These estimates are given for the major horizons of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

*Depth* to the upper and lower boundaries of each horizon is indicated.

In table 24, *clay* as a soil separate, or component, consists of mineral soil particles that are less than 0.002 millimeter in diameter. The estimated clay content of each major soil horizon is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The amount and kind of clay greatly affect the fertility and physical condition of the soil. They determine the ability of the soil to adsorb cations and to retain moisture. They influence linear extensibility, permeability, plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earth-moving operations.

Moist bulk density is the weight of soil (ovendry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3-bar moisture tension. Weight is determined after drying the soil at 105 degrees C. In table 24, the estimated moist bulk density of each major soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and

roots. A bulk density of more than 1.6 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Permeability refers to the ability of a soil to transmit water or air. The term "permeability," as used in soil surveys, indicates saturated hydraulic conductivity (K<sub>sat</sub>). The estimates in the table indicate the rate of water movement, in inches per hour, when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Permeability is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each major soil horizon. The capacity varies, depending on soil properties that affect the retention of water and the depth of the root zone. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility percent is the linear expression of the volume difference of natural soil fabric at ½-bar or ½-bar water content and oven dryness. The volume change is reported as percent change for the whole soil. Volume change occurs mainly because of the interaction of clay minerals with water and varies with the amount and type of clay minerals in the soil. The size of the load on the soil and the magnitude of the change in soil moisture content influence the amount of swelling of soils in place. Laboratory measurements of swelling of undisturbed clods were made for many soils. For others, swelling was estimated on the basis of the kind and amount of clay minerals in the soil and on measurements of similar soils.

Linear extensibility of 3 percent or more can cause damage to buildings, roads, and other structures. Special design is often needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In table 24, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained or increased by returning crop residue to the soil. Organic matter affects the available water

capacity, infiltration rate, and tilth. It is a source of nitrogen and other nutrients for crops.

Erosion factors are shown in table 24 as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of several factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and permeability. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

*Erosion factor Kf* indicates the erodibility of the fineearth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. Descriptions of these groups are available in the National Soil Survey Handbook (USDA, 2003).

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

In table 25, cation-exchange capacity is the total amount of extractable bases that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. Soils having a low cation-exchange capacity hold fewer cations and may require more frequent applications of fertilizer than soils having a high cation-exchange capacity. The ability to retain cations reduces the hazard of ground-water pollution.

Soil reaction is a measure of acidity or alkalinity and is expressed as a range in pH values. The range in pH

of each major horizon is based on many field tests. For many soils, values have been verified by laboratory analyses. Soil reaction is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion.

Calcium carbonate equivalent is the percent of carbonates, by weight, in the fraction of the soil less than 2 millimeters in size. The availability of plant nutrients is influenced by the amount of carbonates in the soil. Incorporating nitrogen fertilizer into calcareous soils helps to prevent nitrite accumulation and ammonium-N volatilization.

Gypsum is expressed as a percent, by weight, of hydrated calcium sulfates in the fraction of the soil less than 20 millimeters in size. Gypsum is partially soluble in water. Soils that have a high content of gypsum may collapse if the gypsum is removed by percolating water.

Salinity is a measure of soluble salts in the soil at saturation. It is expressed as the electrical conductivity of the saturation extract, in millimhos per centimeter at 25 degrees C. Estimates are based on field and laboratory measurements at representative sites of nonirrigated soils. The salinity of irrigated soils is affected by the quality of the irrigation water and by the frequency of water application. Hence, the salinity of soils in individual fields can differ greatly from the value given in the table. Salinity affects the suitability of a soil for crop production, the stability of soil if used as construction material, and the potential of the soil to corrode metal and concrete.

### **Water Features**

Table 26 provides information about various water features. This information can be used in land use planning that involves engineering considerations.

Soil moisture status is an estimate of the fluctuating water content in a soil. It greatly influences vegetation type and plant growth; physical properties of soils, such as permeability, workability, strength, linear extensibility, and frost action; and chemical interactions and transport. Many other properties, qualities, and interpretations also are affected. Soil moisture status is important in the classification of soils, wetland, and habitat.

Table 26 gives estimates of soil moisture for each component of a map unit at various depths for every month of the year. The depths displayed are low, representative, and high values. High and low values represent the normally expected range of values. Representative values are indicative of conditions that occur most commonly. *Dry* indicates a moisture

condition under which most plants (especially crops) cannot extract water for growth. Moist indicates a moisture condition under which soil water is most readily available for plant growth. Wet indicates a condition under which water will stand in an unlined hole or at least a condition under which the soil is too wet for the growth of most agricultural species. A moisture status of 4.0-6.7 (wet) indicates that most of the time the component is saturated at some depth between 4.0 feet and 6.7 feet during the month designated. In some years the soil may be saturated at a depth of less than 4.0 feet or more than 6.7 feet; however, field observations indicate that the soil will be saturated between these depths in most years. In the summer, the soil may show the effects of drying plus intermittent rains that result in a moist or wet layer over a dry layer that gets moist or wet again.

Flooding, the temporary covering of the soil surface by flowing water, is caused by overflow from streams or by runoff from adjacent slopes. Shallow water standing or flowing for short periods after rainfall or snowmelt is not considered flooding. Standing water in marshes and swamps or in closed depressions is considered to be ponding.

Table 26 gives estimates of the frequency and duration of flooding for every month of the year. Flooding frequency is the annual probability of a flood event expressed as a class. None indicates no reasonable possibility of flooding (the chance of flooding is nearly 0 percent in any year, or flooding is likely less than once in 500 years). Very rare indicates that flooding is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year, or flooding is likely less than once in 100 years but more than once in 500 years). Rare indicates that flooding is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year, or flooding is likely 1 to 5 times in 100 years). Occasional indicates that flooding occurs infrequently under usual weather conditions (the chance of flooding is 5 to 50 percent in any year, or flooding is likely 5 to 50 times in 100 years). Frequent indicates that flooding is likely to occur often under usual weather conditions (the chance of flooding is more than 50 percent in any year, or flooding is likely more than 50 times in 100 years; but the chance of flooding is less than 50 percent in all months in any year). Very frequent indicates that flooding is likely to occur very often under usual weather conditions (the chance of flooding is more than 50 percent in all months of any

Flooding duration is the average duration of inundation per flood occurrence expressed as a class.

Extremely brief is 0.1 hour to 4.0 hours; very brief is 4 to 48 hours; brief is 2 to 7 days; long is 7 to 30 days; and very long is more than 30 days. About two-thirds to three-fourths of all flooding occurs during the stated period.

The information on flooding is based on evidence in the soil profile, namely thin strata of gravel, sand, silt, or clay deposited by floodwater; irregular decrease in organic matter content with increasing depth; and little or no horizon development.

Also considered are local information about the extent and level of flooding and the relation of each soil on the landscape to historic floods. Information on the extent of flooding based on soil data is less specific than that provided by detailed engineering surveys that delineate flood-prone areas at specific flood frequency levels.

Ponding is standing water in a closed depression. Unless a drainage system is installed, the water is removed only by percolation, transpiration, or evaporation.

Table 26 gives estimates of the frequency, duration, and depth of ponding for every month of the year. The depths displayed are low, representative, and high values. Low and high values represent the normally expected range of values. Representative values are indicative of conditions that occur most commonly.

Ponding frequency is the number of times ponding occurs over a period of time. *None* indicates no reasonable possibility of ponding (the chance of ponding is nearly 0 percent in any year). Rare indicates that ponding is unlikely but possible under unusual weather conditions (the chance of ponding ranges from nearly 0 percent to 5 percent in any year, or ponding is likely 0 to 5 times in 100 years). Occasional indicates that ponding is expected infrequently under usual weather conditions (the chance of ponding ranges from 5 to 50 percent in any one year, or ponding is likely 5 to 50 times in 100 years). Frequent indicates that ponding is likely to occur under usual weather conditions (the chance of ponding is more than 50 percent in any year, or ponding is likely more than 50 times in 100 years).

Ponding duration is the average length of time of the ponding occurrence. It is expressed as *very brief* (less than 2 days), *brief* (2 to 7 days), *long* (7 to 30 days), and *very long* (more than 30 days).

#### Soil Features

Table 27 gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

Subsidence is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. The table shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

Potential for frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, permeability, content of organic matter, and depth to a zone in which the soil moisture status is wet are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a saturated zone high in the profile during the winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low

soil strength during thawing cause damage to pavements and other rigid structures.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low, moderate*, or *high*, is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low, moderate,* or *high.* It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

Table 23.--Engineering Index Properties

#### (Absence of an entry indicates that the data were not estimated)

   Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve nu	e passinumber	ng	  Liquid	   Plas-
and	map unit		İ		Ī	>10	3-10	i				limit	
component name			İ	Unified	AASHTO	inches	inches	4	10	40	200	i	index
		In	ĺ			Pct	Pct	İ		İ	İ	Pct	İ
	ļ		<u> </u>			ļ	ļ			ļ	ļ		ļ
B109A:	45	0 20						1 100				!	!
Bowstring	45	0-38	Muck  Stratified sand		A-8  A-2-4, A-2	0   0	0   0	100   100	100   100	  50-85			  NP-5
   	 	38-47	to fine sandy		A-2-4, A-2   	0	0   	100   	100   	50-85   	   	   	NP-5   
į	į	47-80	Muck	PT	A-8	j 0	0	100	100	j	ļ		ļ
  Fluvaquents	40   	0-16	  Fine sandy loam 	ML, SC-SM, CL-ML, SM	  A-4 	   0 	   0 	  95-100 	  90-100 	  70-85 	  40-55 	   0-25 	  NP-10 
 	 	16-80	Stratified   loamy sand to   silt loam	CL, SM, ML	A-1, A-3,   A-4, A-6 	0	0     	95-100     	70-100   	  35-95   	5-80     	0-40   	NP-15     
Hapludalfs	5 I	0-6	  Fine sandy loam	CTMT. SC-SM	I I ∆ – 4	l l 0	l   0-3	  95-100	l   85-100	I   70-85	I   35-55	  20-30	   5-10
		6-8			A-2-4, A-4   	0	•	95-100  95-100 			•		NP-5   
   	 	8-25		CL	  A-6 	   0 	   0-5   	  95-100   	  85-100   	  75-100   	  50-95   	  25-40   	  10-20   
 	 	25-80	Fine sandy   loam, loam,   silt loam	CL-ML, CL, SC	A-4, A-6   	0-1	0-5   	95-100     	85-100   	70-100     	35-90     	20-35   	5-15     
Seelyeville	5 I	0-10	  Muck	PT	  A-8	l l 0	I I 0	1 100	l l 100	 	 		 
					A-8 	0	0   	100	100	   	   		   
Water	5						 	ļ !	 	 	 	ļ 	 
B200A:			 		 		 	 	 	 	 	 	 
Garnes	70	0-6	Fine sandy loam	SM, SC-SM	A-4	j o	0-5	85-100	85-95	65-85	35-50	15-35	NP-10
   	 	6-9	Fine sand,   sand, loamy   fine sand		A-1, A-2-4, A-3, A-2	0   	0-2   	95-100   	  95-100   	  45-75   	5-30   	0-20	NP-3   
   		9-14	1	SC, CL	  A-4, A-6 	0-1	0-5   	  95-100   	  80-100   	70-100   	45-80   	  20-40 	7-20
į	i	14-72	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classi	fication	Fragi	ments		rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit		İ	İ		>10	3-10	İ				limit	ticity
component name	j i		İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
	İ	In	İ	<u> </u>	İ	Pct	Pct	[	İ	İ	İ	Pct	İ
B200A:	 		 	 	l I		 	 	 	 	 	l I	 
Chilgren	   13   	0-4	Fine sandy loam	CL-ML, SM,	A-2-4, A-4, A-2	0-1 	0-3 	  90-100 	  85-100 	  60-85 	  25-55 	  15-35 	  NP-10 
	     	4-10	Fine sand, fine   sandy loam,   loamy fine   sand	SP-SM, SM     	A-1, A-2-4,   A-3, A-2 	0     	0-2     	95-100     	95-100     	45-75     	5-30     	0-20     	NP-3     
	 	10-18	Clay loam,   sandy clay   loam, loam	CL, SC   	A-4, A-6 	0-1	0-5   	95-100     	80-100   	  70-100   	45-80   	20-40   	7-20
		18-72	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	72-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1 	0-5 	95-100 	85 <b>-</b> 95 	75-90 	50-75 	25-40 	5-20 
Eckvoll	5	0-9	Loamy fine sand	SC-SM, SM	A-2-4	0-1	0-2	90-100	  85-100	  65-80	15-30	0-20	NP-5
	 			SP-SM, SM 	A-1, A-2-4, A-3	0	•	•	95-100   	•		•	
	 	25-32	Clay loam,   sandy clay   loam, loam	sc, cl 	A-6   	0	0-5   	  90-100   	  75-100   	  60-95   	  45-75   	25-40	  10-20   
	j I	32-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1 	   0-5 	95-100 	85-95 	75-90 	50-75 	  25-40 	5-20
Garnes, very	į <u> </u>		į	<u></u>	į.	į .							
stony	5		•	CL-ML, ML	A-4	1-3	•				•	15-35	
	   	6-9	Fine sand,   sand, loamy   fine sand	SM, SP-SM   	A-1, A-2-4,   A-3, A-2	0   	0-2   	    95-100	    95-100	45-75   	5-30   	0-20	NP-3   
	   	9-14		  CL, SC   	A-4, A-6 	0-1	   0-5   	  95-100   	  80-100   	  70-100   	  45-80   	20-40	7-20
		14-72	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	72-80	Loam, clay loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Grygla	4	0-6	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	95-100	85-95	15-35	0-25	NP-5
	 	6-26		SC-SM, SM, SP-SM	A-2-4, A-3	0	0-1   	95-100   	90-100   	70-95   	5-35   	0-20	NP-5   
	   	26-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	   0-5 	  95-100 	  85-95 	75-90	  50-75 	25-40	   5-20 

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	nents	•	rcentage sieve nu	_	ng	  Liquid	   Plas-
and	map unit	_	İ		I	>10	3-10	İ					ticity
component name			İ	Unified	AASHTO	inches	inches	4	10	40	200	į .	index
		In				Pct	Pct					Pct	
B200A:			İ	 	! 	 		 	 	! 	! 		
Pelan	3	0-6		, -	A-4	0			85-95		•	,	
		6-9	Fine sand,   sand, loamy   fine sand	SP-SM, SM   	A-1, A-2, A-3   	0   	0-2	95-100   	95-100   	45-75   	5-30   	0-20   	NP-3   
		9-14	sandy loam,   very gravelly   sandy clay	SC, GC, GM, SM	  A-1, A-2     	0     	2-5	45-85     	25-50     	10-45     	5-35     	20-30     	NP-10     
		14-20	loam  Very gravelly   sand, very   gravelly   coarse sand,   very gravelly	  SP-SM, SP,   GP-GM, GP   	  A-1       	   0         	2-5	  30-65       	  15-45       	   5-40     	   0-10     	   0-20       	  NP-3     
		20-60	loamy sand  Loam, clay loam	  cr_mr_cr	  A-6, A-4	   0-1	0-5	   05_100	  85-95	   75_90	   50-75	125-40	   5-20
		20-60	Loam, Clay loam	CL-ML, CL	A-6, A-4 	U-I	0-5	  95-100	65-95 	/5-90 	50-75 	25-40	5-20 
B201A:			İ		į	i		į	i	İ	İ	i	i
Chilgren	75	0-4	Fine sandy loam 	CL-ML, SC-SM,   ML, SM	A-2-4, A-4,   A-2	0-1 	0-3	90-100 	85-100 	60-85 	25-55 	15-35 	NP-10 
		4-10	Fine sand, fine   sandy loam,   loamy fine   sand	SM, SP-SM     	A-1, A-2-4,   A-3, A-2 	0     	0-2	95-100     	95-100     	45-75     	5-30     	0-20     	NP-3     
İ		10-18	Clay loam,   sandy clay   loam, loam	SC, CL	A-4, A-6   	0-1   	0-5	  95-100   	80-100   	  70-100   	45-80   	20-40   	7-20
I		18-72	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1			85-95				5-20
		72-80	Clay loam, loam 	CL-ML, CL 	A-6, A-4 	0-1 	0-5	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Garnes	9	0-6	Fine sandy loam	SC-SM, SM	A-4	0	0-5	85-100	85-95	65-85	35-50	15-35	NP-10
		6-9	Fine sand,   sand, loamy   fine sand	SP-SM, SM   	A-2, A-1,   A-2-4, A-3	0   	0-2	95-100   	95-100   	45-75   	5-30   	0-20	NP-3   
		9-14	1	  sc, cL 	  A-4, A-6   	   0-1 	0-5	  95-100   	  80-100   	  70-100   	  45-80   	  20-40   	7-20
I			Loam, clay loam		A-4, A-6	0-1			85-95		•		5-20
		72-80	Loam, clay loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5	95-100 	85-95 	75-90 	50 <b>-</b> 75 	25-40 	5-20 
Grygla	5	0-6	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	95-100	85-95	15-35	0-25	NP-5
	 	6-26	Sand, fine   sand, loamy   fine sand	SP-SM, SC-SM,   SM	A-2-4, A-3   	0   	0-1	95-100   	90-100   	70-95   	5-35   	0-20   	NP-5   
		26-80	Loam, clay loam 	CL-ML, CL 	A-6, A-4 	0-1 	0-5	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	Depth	USDA texture	Classif	Eication	Fragi	ments	•	rcentage sieve n	_	ng	  Liquid	   Plas
and	map unit		İ	ĺ		>10	3-10	İ				limit	ticit
component name			L	Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct					Pct	
B201A:				 		 	 	 	 	 	 		 
Grygla,													l
depressional	5   	0-6	Mucky loamy   fine sand	SC-SM, SM 	A-2-4 	0 	0 	100 	95-100 	85-95 	15-35 	0-25	NP-5 
	 	6-26	Sand, fine   sand, loamy   fine sand	SC-SM, SM,   SP-SM 	A-2-4, A-3   	0   	0-1   	95-100   	90-100   	70-95   	5-35   	0-20 	NP-5   
		26-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	  95-100	  85-95	75-90	  50-75	25-40	5-20
Hamre	l 5 I	0-13	Muck	I   PT	  A-8	l l 0	I I 0	1 100	l   100	 		¦	 
			!	CL-ML, CL 	A-4, A-6	0-1   			80-100   	  70-100   	  50-90   	25-40	   5-20   
	i	18-35	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	  95-100	  85-95	75-90	50-75	25-40	5-20
	į		Loam, clay loam	•	A-4, A-6	0-1	0-5 	95-100 	85-95 	75-90 	  50-75	25-40	5-20
Pelan	1 1	0-6	Sandy loam	SC-SM, SM	  A-4	0	   0-5	  85-100	ı  85-95	ı  65-85	  35-50	15-35	  NP-10
		6-9		SM, SP-SM	A-1, A-2, A-3			•	95-100   		5-30 	•	NP-3 
		9-14	'	GM, SM, GC,   SC   	A-1, A-2     	0       	   2-5     	  45-85       	  25-50     	  10-45     	5-35       	20-30       	  NP-10       
			Very gravelly   sand, very   gravelly   coarse sand,   very gravelly   loamy sand  Loam, clay loam	SP, GP-GM, GP, SP-SM	A-1	0               0-1	       	 	15-45                  85-95	       	 	0-20	NP-3                 5-20
, ,		20-60	Clay Ioam	CL, CL-ML			0-3			/3-90	50-75	25-40	3-20
B202A:				<u> </u>						ļ	İ	!	ļ .
Cathro	80	0-11	'	PT	A-8	0	0	100	100				
	 	11-23 23-60	Muck  Loam, clay loam	PT  CL-ML, CL	A-8  A-6, A-4	0   0-1	0   0-5	100  95-100	100  85-95	  75-90	  50-75	  25-40	   5-20
   Hamre	   8	0-13	  Muck	   PT	  A-8	   0	   0	   100	   100	 		 	 
			'	CL, CL-ML   	A-4, A-6	0-1   			100  80-100   		1	1	5-20   
	j i	18-35	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	İ	35-80	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40	5-20

Map symbol	   Pct. of	Depth	USDA texture	Classif:	ication	Fragi	nents		rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit				l	>10	3-10	i					ticity
component name	i - i		i	Unified	AASHTO	inches	inches	4	10	40	200	ï	index
		In	İ			Pct	Pct					Pct	
B202A:	 		 	 	 		 	 	 		 		 
Chilgren	3	0-4	Fine sandy loam	SC-SM, CL-ML,	A-2-4, A-4,	0-1	0-3 	90-100	85-100 	60-85 	25-55 	15-35 	NP-10
	 	4-10	Fine sand, fine   sandy loam,   loamy fine   sand	SP-SM, SM   	A-1, A-2-4,   A-3, A-2 	0     	0-2     	  95-100     	95-100     	45-75   	5-30   	0-20	NP-3     
	i i I I	10-18	Clay loam,   sandy clay   loam, loam	SC, CL	  A-4, A-6   	0-1	0-5   	  95-100   	80-100   	70-100   	45-80 	20-40   	7-20
	i i	18-72	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	j j	72-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40	5-20
Northwood	'   3	0-9	Muck	PT	A-8	i o	0	100	100			i	i
	 	9-14	Fine sandy   loam, loamy   fine sand,   loamy sand	SM, SC-SM   	  A-2-4, A-4   	0     	0-3     	  95-100     	90-100     	50-85   	15-50     	0-25	NP-10     
		14-24		SP-SM, SM   	A-2-4, A-2,   A-3 	0     	0-3     	  95-100     	  80-100     	70-95   	5-35   	0-15	NP-3     
	j j	24-80	Clay loam, loam	CL-ML, CL	  A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90	50-75	25-40	5-20
Berner	2	0-28	Muck	PT	  A-8	i 0	l I 0	100	100			i	i
	 	28-31	Sandy loam,   fine sandy   loam, gravelly   sandy loam	SC-SM, SC, SM		0     	   0   	90-100     	70-100     	50-85 	10-50   	15-25   	NP-10     
	 	31-44	Sand, loamy   sand, gravelly   sand	SM, SP, SP-SM	A-2-4, A-3   	0	0   	90-100   	70-100   	60-80   	0-25   	0-20	NP-3   
	j j	44-80	Loam, clay loam	CL, CL-ML	  A-6, A-4 	0-1	0-5 	95-100	  85-95 	75-90	50-75	25-40	5-20 
Grygla	. 2	0-6	Loamy fine sand	SM, SC-SM	A-2-4	j 0	0	100	95-100	85-95	15-35	0-25	NP-5
	 		sand, loamy	SP-SM, SC-SM,   SM 	i I	0   	   	 	90-100   		 	i I	NP-5   
		26-80	Clay loam, loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Seelyeville	2	0-10		•	A-8	0	0	100	100				
	 	10-80	Muck, mucky   peat	PT 	A-8 	0 	0 	100 	100 	 	 	 	 

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragr	nents		rcentage sieve n		ng	  Liquid	   Plag-
and	map unit		ODDA CERCUTE			>10	3-10	i			1 000		ticity
component name	l	   In	I	Unified	AASHTO	inches   Pct	Pct	<u>4</u> 	10	40	200	Pct	index
	 			! 	! 	100	100	<u> </u>	! 	<u> </u>	<u> </u>		i
B203A:	j	j	İ	İ	İ	į į		į	į	į	i	i	į
Northwood	75	0-9	Muck		A-8	0	0	100	100				
	     	9-14   	Fine sandy   loam, loamy   fine sand,   loamy sand	SM, SC-SM     	A-2-4, A-4     	0     	0-3	95-100     	90-100     	50-85     	15-50     	0-25     	NP-10     
	     	14-24     	Coarse sand,   fine sand,   loamy fine   sand	SM, SP-SM     	A-2-4, A-2,   A-3 	0     	0-3	95-100     	80-100     	70-95     	5-35     	0-15     	NP-3   
	 	24-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100 I	85-95 	75-90 I	50-75 	25-40	5-20
Hamre	10	0-13	Muck	PT	A-8	0	0	100	100	i	i	i	i
	 	13-18   	Loam, clay   loam, silt   loam	CL, CL-ML	A-4, A-6   	0-1   	0-3	90-100   	80-100   	70-100   	50-90   	25-40	5-20 
	İ	18-35	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95 <b>-</b> 100	85-95	75-90	50-75	25-40	5-20
		35-80	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Grygla	l l 7	l l 0-6	Loamy fine sand	l  sc-sm.sm	  A-2-4	I I 0	0	   100	  95-100	l 185-95	  15-35	   0-25	  NP-5
		•			A-2-4, A-3   	0			90-100   		5-35   	•	NP-5 
	 	26-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100 	85-95 	75-90	50-75 	25-40	5-20
Berner	5	0-28	Muck	PT	A-8	j 0	0	100	100	i	i	i	i
	 	28-31   	Sandy loam,   fine sandy   loam, gravelly   sandy loam	sm, sc-sm, sc     	A-2-4, A-4     	0	0	90-100     	70-100     	50-85     	10-50     	15-25     	NP-10   
	   	31-44   	Sand, loamy   sand, gravelly   sand	SM, SP-SM, SP   	A-2, A-3   	0   	0	90-100   	70-100   	60-80   	0-25   	0-20   	NP-3   
	 	44-80 	Clay loam, loam	CL, CL-ML 	A-6, A-4 	0-1	0-5	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Chilgren	]   3 	0-4 	Fine sandy loam	SC-SM, ML,	A-2-4, A-4,   A-2	0-1	0-3	90-100 	  85-100 	60-85	  25-55 	  15-35 	NP-10
	 	4-10   	Fine sand, fine   sandy loam,   loamy fine   sand	•	A-1, A-2-4,   A-3, A-2 	0	0-2	  95-100     	  95-100     	45-75     	5-30     	0-20     	NP-3     
	   	10-18   	Clay loam,   sandy clay   loam, loam	CL, SC   	  A-4, A-6   	0-1	0-5	  95-100   	80-100   	70-100   	45-80   	20-40	7-20   
		•	Loam, clay loam	•	A-4, A-6	0-1			85-95				5-20
	 	72-80 	Loam, clay loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5	95 <b>-</b> 100 	85-95 	75-90 	50-75 	25-40 	5-20 

Map symbol	   Pct. of	Depth	   USDA texture	Classif: 	ication	Fragi	nents		ercentage passing   sieve number   Li				   Plas
and	map unit	201011	1		1	>10	3-10	, ,	32010 11			limit	•
component name	Map unic		 	   Unified	AASHTO	•	inches	l ———— l 4	10	l 40	200	1	index
Component name			<u> </u>	Unitied	AASHIO			_ =	1 10	1 40	200		Index
		In		!		Pct	Pct			ļ		Pct	ļ.
				!		!				ļ		!	ļ.
3204A:				!		1							
Roliss	75		!		A-4, A-6	0-1	0-5		•	80-100	•	20-40	5-20
			Clay loam, loam	•	A-4, A-6	0-1	0-5	•	•	75-90	•	25-40	5-20
		20-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Grygla	8	0-6	Loamy fine sand	•	A-2-4	0	0			85-95			NP-5
		6-26	!	!	A-2-4, A-3	0	0-1	95-100	90-100	70-95	5-35	0-20	NP-5
			sand, loamy	SP-SM								!	
			fine sand									!	
		26-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
				!		ļ				!		!	ļ
Chilgren	5	0-4	Fine sandy loam		A-2-4, A-4,	0-1	0-3	90-100	85-100	60-85	25-55	15-35	NP-10
				SC-SM, CL-ML								!	
		4-10	Fine sand, fine	SP-SM, SM	A-1, A-2-4,	0	0-2	95-100	95-100	45-75	5-30	0-20	NP-3
			sandy loam,		A-3, A-2								
			loamy fine										
			sand										
		10-18	Clay loam,	CL, SC	A-4, A-6	0-1	0-5	95-100	80-100	70-100	45-80	20-40	7-20
			sandy clay										
			loam, loam										
		18-72	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		72-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Garnes	5	0-6	Fine sandy loam	SM, SC-SM	A-4	0	0-5	85-100	85-95	65-85	35-50	15-35	NP-10
		6-9	Fine sand,	SM, SP-SM	A-2, A-1,	0	0-2	95-100	95-100	45-75	5-30	0-20	NP-3
			sand, loamy		A-2-4, A-3								
			fine sand										
		9-14	Clay loam,	CL, SC	A-4, A-6	0-1	0-5	95-100	80-100	70-100	45-80	20-40	7-20
			sandy clay										
			loam, loam										
		14-72	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		72-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Roliss,													
depressional	5	0-14	Loam	CL-ML, CL	A-4, A-6	0-1	0-1	95-100	85-95	80-95	60-85	20-40	5-20
		14-20	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Hamre	2	0-13	Muck	PT	A-8	0	0	100	100				
		13-18	Loam, clay	CL, CL-ML	A-4, A-6	0-1	0-3	90-100	80-100	70-100	50-90	25-40	5-20
j	ı İ		loam, silt							I			
j	ı i		loam						l	I		1	
	į i	18-35	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	į i		Clay loam, loam		A-4, A-6	0-1	0-5			75-90		•	5-20
	i					1						1	i .

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif:	ication	Frag	ments		rcentage sieve n	  Liquid	   Plas-		
and	map unit		į	>10   3-10						limit	ticity		
component name			İ	Unified	AASHTO	inches	inches	4	10	40	200	200	index
		In	I	I	I	Pct	Pct	Į.	ļ .	l	<u> </u>	Pct	[
B205A:			 	 	 		 	 	 	 	 	 	 
Berner	l 80 I	0-28	Muck	I PT	I  A-8	i 0	i i o	1 100	l l 100	 	! 	¦	! 
Deriier	00   			SC, SC-SM, SM		1 0	1 0			ı	I   10-50	115-25	เ  พp=10
			fine sandy   loam, gravelly   sandy loam	İ			     	     	     	     	     	   	     
		31-44	Sand, loamy   sand, gravelly   sand	SP, SM, SP-SM   	A-2-4, A-2,   A-3 	0   	0   	90-100   	70-100   	  60-80   	0-25   	0-20   	NP-3   
		44-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Northwood	7	0-9	  Muck	  PT	  A-8	0	0	1 100	   100	 	 		 
		9-14	loam, loamy	SC-SM, SM   	A-2-4, A-2,   A-4 	0   	0-3   	95-100   	90-100   	50-85   	15-50   	0-25   	NP-10   
		14-24	loamy sand  Coarse sand,   fine sand,   loamy fine   sand	  SP-SM, SM     	  A-2-4, A-2,   A-3 	   0   	   0-3   	  95-100     	  80-100     	  70-95     	   5-35     	   0-15     	  NP-3     
		24-80	Loam, clay loam	CL-ML, CL	A-6, A-4 	0-1	0-5 	95 <b>-</b> 100	85-95 	75-90	50-75	25-40 	5-20
Grygla	,   5	0-6	Loamy fine sand	SC-SM, SM	A-2	i o	i o	100	  95-100	85-95	  15-35	0-25	NP-5
			Sand, fine		A-2-4, A-3   	0	0-1   		90-100   				
		26-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85 <b>-</b> 95	75 <b>-</b> 90	50 <b>-</b> 75	25-40	5-20
Cathro	3	0-11	  Muck	  PT	  A-8	0	0	1 100	1 100	 	 		 
		11-23	Muck	PT	A-8	0	0	100	100				
		23-60	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Hamre	3	0-13	  Muck	  PT	  A-8	0	0	1 100	1 100	 	 		 
		13-18	Loam, clay   loam, silt   loam	CL, CL-ML   	A-4, A-6   	0-1   	0-3   	90-100   	80-100   	70-100   	50-90   	25-40   	5-20   
	ı İ	18-35	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	İ	35-80	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75 	25-40	5-20
Seelyeville	   2	0-10	  Muck	  PT	  A-8	   0	   0	   100	   100	 	 	 	 
		10-80	Muck, mucky   peat	PT   	A-8   	0   	0   	100   	100   	   	   	 	   

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	-i	ments		rcentage sieve n	_	_		    Plas-
and component name	map unit			   Unified	   AASHTO	>10	3-10	   4	l 10	l 40	l 200	limit	ticity  index
Component name			<u> </u>	Unitied	AASHIO			1 *	1 10	1 40	200		Index
		In		1		Pct	Pct			 		Pct	
B206A:		 	Ī	] 	] 	i	l I	i İ	 	! 	 		i
Hamre	80	0-13	Muck	PT	A-8	j 0	0	100	100	j	j	j	i
		13-18   	Loam, clay   loam, silt   loam	CL-ML, CL   	A-4, A-6   	0-1	0-3   	90-100   	80-100   	70-100   	50-90   	25-40   	5-20   
	j i	18-35	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		35-80	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Chilgren	8	   0-4 	  Fine sandy loam 	  CL-ML, SC-SM,   ML, SM	  A-2-4, A-4,   A-2	   0-1 	   0-3 	  90-100 	  85-100 	  60-85 	  25-55 	  15-35 	  NP-10 
		4-10   	Fine sand, fine   sandy loam,   loamy fine   sand	SM, SP-SM     	A-1, A-2-4, A-3, A-2	0     	0-2     	95-100     	95-100     	45-75     	5-30     	0-20	NP-3   
		10-18 	Clay loam,   sandy clay   loam, loam	sc, cL   	A-4, A-6   	0-1   	0-5   	  95-100   	  80-100   	  70-100   	45-80   	20-40   	7-20
		18-72	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		72-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Northwood	5	   0-9	Muck	  PT	  A-8	0	   0	   100	   100	 	 		
		9-14   	Fine sandy   loam, loamy   fine sand,   loamy sand	sm, sc-sm     	A-2-4, A-4     	0     	0-3     	95-100     	90-100     	50-85     	15-50     	0-25	NP-10   
		14-24   	Coarse sand,   fine sand,   loamy fine   sand	SM, SP-SM     	A-2-4, A-2,   A-3 	0     	0-3     	  95-100     	  80-100     	  70-95     	5-35     	0-15	NP-3     
		24-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95 	75-90 	50-75 	25-40	5-20
Cathro	3	   0-11	  Muck	  PT	  A-8	0	   0	1 100	   100	 			
		11-23	Muck	PT	A-8	0	0	100	100				

A-6, A-4

A-2-4, A-3

A-6, A-4

A-4, A-6

A-4, A-6

A-6, A-4

0

0

0-1

0-1

0-1

0-1

0

0-1

0-5

A-2-4

0-1 | 0-5 | 95-100 | 85-95 | 75-90 | 50-75 | 25-40 | 5-20

100 | 95-100 | 85-95 | 15-35 |

|95-100|90-100|70-95 | 5-35 | 0-20 |NP-5

|95-100|85-95 |75-90 |50-75 |25-40 | 5-20

|95-100|80-100|80-100|60-90 |20-40 | 5-20

0-5 | 95-100 | 85-95 | 75-90 | 50-75 | 25-40 | 5-20

| 0-5 | 95-100 | 85-95 | 75-90 | 50-75 | 25-40 | 5-20

0-25 NP-5

23-60 | Loam, clay loam | CL-ML, CL

0-6 | Loamy fine sand | SM, SC-SM

14-20 | Clay loam, loam | CL-ML, CL

20-80 | Clay loam, loam | CL, CL-ML

sand, loamy

| fine sand | 26-80 | Clay loam, loam | CL, CL-ML

SM, SC-SM,

CL-ML, CL

SP-SM

6-26 | Sand, fine

0-14 Loam

Grygla-----

Roliss-----

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classi:	fication	Frag	ments	ts   Percentage passing sieve number				  Liquid	   Plas-
and	map unit				1	>10	3-10	i				limit	
component name			İ	Unified	AASHTO		inches	4	10	l 40	1 200		index
		In	İ			Pct	Pct	<u> </u>				Pct	
B207A:	 			 		 	 	 	 	 	 		 
Pelan	l 70	0-6	Sandy loam	SC-SM, SM	  A-4	l   0	0-5	I   85-100	  85-95	I   65-85	  35-50	  15-35	  NP-10
			Fine sand,   sand, loamy   fine sand	SM, SP-SM	A-1, A-2, A-3		•	•	95-100   		•	•	
	     	9-14	Very gravelly   sandy loam,   very gravelly   sandy clay   loam	GM, SM, GC,   SC     	A-1, A-2     	0       	2-5       	45-85       	25-50         	10-45         	5-35       	20-30       	NP-10         
		14-20	Very gravelly   sand, very   gravelly   coarse sand,   very gravelly   loamy sand	SP-SM, SP,   GP-GM, GP       	A-1     	0         	2-5         	30-65           	15-45           	5-40         	0-10         	0-20         	NP - 3           
	i I i	20-60	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1 	0-5	  95-100 	  85-95 	75-90	50-75 	25-40	5-20
Chilgren	10	0-4	Fine sandy loam	SC-SM, ML,	A-2-4, A-4,	   0-1 	0-3	90-100 	85-100 	60-85 	  25-55 	  15-35 	  NP-10 
	     	4-10	Fine sand, fine   sandy loam,   loamy fine   sand	SP-SM, SM     	A-1, A-2-4,   A-3, A-2 	0     	0-2     	95-100     	95-100     	45-75     	5-30     	0-20   	NP-3     
	 	10-18	Clay loam,   sandy clay   loam, loam	sc, cr   	A-4, A-6 	   0-1   	0-5   	  95-100   	  80-100   	  70-100   	  45-80   	20-40	7-20
		18-72	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	72-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Garnes	   10	0-6	Fine sandy loam	ISC-SM.SM	  A-4	i o	0-5	  85-100	  85-95	l 65-85	35-50	15-35	NP-10
0021102				SM, SP-SM 	A-2, A-1,   A-2-4, A-3	0   0 	,		95-100   		,	0-20	
	 		sandy clay	CL, SC   	A-4, A-6   	0-1   	;   	 	80-100   	 	i I	į I	7-20   
		14-72	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	72-80	Clay loam, loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 

Map symbol	Pct. of	Depth	   USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	e passi: umber	ng	  Liquid	   Plas-
and	map unit				1	>10	3-10	i 				limit	ticity
component name			İ	Unified	AASHTO	inches	inches	4	10	40	200		index
	ļ	In	ļ		ļ	Pct	Pct					Pct	ļ
B207A:			 	 	 	 	 	 	 	 	 	 	 
Eckvoll	5	0-9	Loamy fine sand	SC-SM, SM	A-2	0-1	0-2	90-100	85-100	65-80	15-30	0-20	NP-5
	 	9-25	Fine sand,   sand, loamy   fine sand	SM, SP-SM 	A-1, A-2, A-3 	   0 	0-2   	  95-100   	  95-100   	45-75   	5-30   	0-20	NP-3   
	 	25-32	Clay loam,   sandy clay   loam, loam	sc, cL	  A-6 	0 	0-5   	  90-100   	75-100   	  60-95 	45-75   	25-40   	  10-20   
	į	32-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Grygla	   5	0-6	  Loamy fine sand	  SM, SC-SM	  A-2-4	   0	   0	   100	  95-100	  85-95	  15-35	0-25	  NP-5
	 	6-26	Sand, fine   sand, loamy   fine sand	SP-SM, SC-SM,   SM 	A-2-4, A-3   	0   	0-1   	95-100   	90-100   	70-95   	5-35   	0-20   	NP-5   
	 	26-80	Clay loam, loam 	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
B208A:													
Grygla	75       		Loamy fine sand  Sand, fine   sand, loamy   fine sand	SC-SM, SM  SP-SM, SC-SM,   SM 	A-2  A-2-4, A-3 	0   0 	0   0-1 			85-95  70-95   		•	•
İ	 	26-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Chilgren	10	0-4	  Fine sandy loam 		A-2-4, A-4, A-2	   0-1 	0-3	  90-100 	  85-100 	  60-85 	  25-55 	  15-35 	  NP-10 
	 	4-10	Fine sand, fine   sandy loam,   loamy fine   sand		A-1, A-2-4,   A-3, A-2 	0     	0-2     	95-100     	95-100     	45-75     	5-30   	0-20     	NP-3     
	 	10-18	Clay loam,   sandy clay   loam, loam	sc, cl	A-4, A-6   	0-1   	0-5   	95-100   	80-100   	70-100   	45-80   	20-40	7-20   
		18-72	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		72-80	Loam, clay loam	CL-ML, CL 	A-6, A-4	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Eckvoll	5		Loamy fine sand		A-2	0-1			•	65-80	•		NP-5
		9-25	Fine sand,   sand, loamy   fine sand	SM, SP-SM   	A-1, A-2, A-3   	0   	0-2   	95-100   	95-100   	45-75   	5-30   	0-20   	NP-3   
		25-32	Clay loam,   sandy clay   loam, loam	CL, SC	A-6 	0 	0-5 	90-100   	75-100   	60-95 	45-75 	25-40	  10-20 
		32-80	Loam, clay loam	  CL-ML, CL 	  A-6, A-4 	   0-1 	   0-5 	  95-100 	  85-95 	  75-90 	  50-75 	25-40	   5-20 

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	Depth	USDA texture	USDA texture					rcentago sieve n	_	ng	  Liquid	•
and	map unit		İ	İ	, , , , , , , , , , , , , , , , , , , ,		limit	ticit					
component name			<u> </u>	Unified	AASHTO	inches	inches	4	10	40	200		index
		In	I		Į.	Pct	Pct					Pct	
B208A:	 		 	 	 		 	l I	 	 	 	l I	 
Grygla,	İ		İ	ĺ	İ	İ	ĺ	İ	İ	ĺ	İ	İ	İ
depressional	5     5	0-6	Mucky loamy   fine sand	SM, SC-SM	A-2-4 	0 	0 	100	95-100	85-95 	15-35 	0-25	NP-5 
	 	6-26	Sand, fine   sand, loamy   fine sand	SC-SM, SM, SP-SM	A-2-4, A-3   	0   	0-1   	95-100   	90-100   	70-95   	5-35   	0-20   	NP-5   
	į	26-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Northwood	l 5 I	0-9	Muck	l  PT	  A-8	l l 0	l l 0	   100	   100	 	 	 	 
	 	9-14	Fine sandy   loam, loamy   fine sand,   loamy sand	SC-SM, SM     	A-2-4, A-2,   A-4 	0     	0-3     	95-100       	  90-100     	  50-85     	  15-50     	0-25     	NP-10     
	 	14-24	Coarse sand,   fine sand,   loamy fine   sand	SP-SM, SM     	A-2-4, A-2,   A-3 	0     	0-3     	95-100       	80-100     	70-95       	5-35     	0-15     	NP-3     
		24-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	  85-95	75-90	50-75	25-40	5-20
B209A:	 			 	 		 	 	 	 	 	 	 
Seelyeville	90       		Muck  Muck, mucky   peat	PT  PT 	A-8  A-8 	0   0 	0   0 	100   100 	100   100 	   !	   !	   !	   !
Cathro	   3	0-11	  Muck	  PT	  A-8	   0	l I 0	   100	   100	 	 	 	 
	j j	11-23	Muck	PT	A-8	j 0	0	100	100	j	j	j	j
	İ	23-60	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Dora	3	0-12	  Mucky peat	  PT	  A-8	0	   0	100	   100	 	 	 	 
		12-32	Muck	PT	A-8	0	0	100	100				
	 	32-36	Mucky silty   clay loam,   mucky silt   loam	  -  CL	A-6   	0   	0     	100     	100     	90-100     	85-95     	25-40     	10-20     
		36-60	Silty clay   loam, silty   clay, clay	CH, CL   	  A-7   	0     	     	100     	100     	  90-100   	90-100     	45-80     	  35-50   
Markey	3		Muck	I  PT	  A-8	0	0	100	100				
		32-60	Fine sand,   loamy sand,   coarse sand	SP, SM, SP-SM   	A-2, A-3   	0   	0   	100   	75-100   	60-75   	0-20   	0-20   	NP-3   

Classification Fragments Percentage passing Pct. of | Depth | USDA texture sieve number --|Liquid| Plas-Map symbol and map unit >10 3-10 |limit |ticity Unified component name AASHTO inches inches 10 40 index In Pct Pct Pct B209A: Berner-----1 0-28 | Muck A-8 0 0 100 100 |15-25 |NP-10 28-31 | Sandy loam, |SC, SC-SM, SM|A-2, A-4 0 0 |90-100|70-100|50-85 10-50 fine sandy loam, gravelly sandy loam 31-44 | Sand, loamy |SP-SM, SP, SM|A-2, A-3 |90-100|70-100|60-80 | 0 0 0-25 0-20 NP-3 sand, gravelly sand 44-80 | Loam, clay loam | CL-ML, CL |95-100|85-95 |75-90 |50-75 |25-40 | 5-20 A-6, A-4 0-1 0-5 B210A: Eckvoll-----Loamy fine sand SC-SM, SM 0-1 |90-100|85-100|65-80 |15-30 0-20 NP-5 70 A-2 0-2 9-25 | Fine sand, SP-SM, SM |A-1, A-2, A-3| 0 0-2 |95-100|95-100|45-75 | 5-30 0-20 NP-3 sand, loamy fine sand 25-32 | Clay loam, SC, CL A-6 0 0-5 |90-100|75-100|60-95 |45-75 |25-40 |10-20 sandy clay loam, loam 32-80 |Loam, clay loam |CL, CL-ML A-6, A-4 0-1 |95-100|85-95 |75-90 |50-75 |25-40 | 5-20 0-5

A-2-4, A-4,

A-1, A-2-4,

A-3, A-2

A-4, A-6

A-4, A-6

A-6, A-4

A-2-4, A-3

A-6, A-4

A-2

A-2

0-1

0-1

0-1

0-1

0

0

0-1

0 - 3

0-2

0-5

0-5

0

0-1

0-5

|90-100|85-100|60-85

|95-100|95-100|45-75 |

|95-100|80-100|70-100|45-80 |20-40

|95-100|85-95 |75-90 |50-75 |25-40

|95-100|85-95 |75-90 |50-75 |25-40 | 5-20

|95-100|85-95 |75-90 |50-75

|95-100|90-100|70-95 | 5-35

100 | 95-100 | 85-95 | 15-35

|25-55 |15-35 |NP-10

25-40

0-20 NP-3

0-25 NP-5

0-20 NP-5

5-20

5-30

|Fine sandy loam | SC-SM, SM,

4-10 | Fine sand, fine | SM, SP-SM

72-80 | Clay loam, loam | CL-ML, CL

Loamy fine sand SC-SM, SM

sandy loam,

| loamy fine | sand 10-18 |Clay loam,

sand, loamy

| fine sand | 26-80 | Loam, clay loam | CL, CL-ML

6-26 | Sand, fine

CL-ML, ML

CL, SC

SM, SP-SM,

SC-SM

Chilgren-----

Grygla-----

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Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	   USDA texture	Classif	ication	Frag	ments	•	rcentag	_	ng	  Liquid	   Plas-
and	map unit		ĺ	ĺ		>10	3-10	İ				limit	ticity
component name			<u></u>	Unified	AASHTO	inches	inches	4	10	40	200	L	index
		In		  -		Pct	Pct					Pct	
B210A:				! 	! 	 	 	 	 	 	 	 	 
Garnes	7	0-6	Fine sandy loam	SM, SC-SM	A-4	0	0-5	85-100	85-95	65-85	35-50	15-35	NP-10
	 	6-9	Fine sand,   sand, loamy   fine sand	SP-SM, SM   	A-1, A-2-4,   A-3, A-2 	0   	0-2   	95-100   	95-100   	45-75   	5-30   	0-20   	NP-3   
		9-14	Clay loam,   sandy clay   loam, loam	SC, CL   	A-4, A-6   	0-1   	0-5   	95-100   	80-100   	70-100   	45-80   	20-40   	7-20   
		14-72	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		72-80	Loam, clay loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Pelan	3	0-6	Sandy loam	SC-SM, SM	A-4	0	0-5	  85-100	  85-95	  65-85	  35-50	15-35	  NP-10
	 	6-9	Fine sand,   sand, loamy   fine sand	SP-SM, SM   	A-1, A-2, A-3   	0   	0-2   	95-100   	95-100   	45-75   	5-30   	0-20   	NP-3   
		9-14	Very gravelly   sandy loam,   very gravelly   sandy clay   loam	SM, GM, GC,   SC     	A-1, A-2       	0       	2-5       	45-85       	25-50       	10-45       	5-35       	20-30       	NP-10       
		14-20	Very gravelly   sand, very   gravelly   coarse sand,   very gravelly   loamy sand	GP, GP-GM,   SP, SP-SM     	<b>A-1</b>       	0         	2-5         	30-65         	15-45         	5-40       	0-10         	0-20         	NP-3         
	İ	20-60	Clay loam, loam	CL, CL-ML	  A-6, A-4 	   0-1 	0-5	95-100 	85-95 	75-90 	50-75 	  25-40 	5-20 
B211A:	į		İ	İ	j	İ	İ	İ	İ	į	İ	İ	į
Berner, ponded	45       		Muck  Sandy loam,   fine sandy   loam, gravelly   sandy loam	  sc, sm, sc-sm 	A-8  A-2, A-4   	0   0     	0   0     	100  90-100     	100  70-100     	  50-85     	  10-50     	  15-25     	  NP-10     
		31-44	-	  SM, SP-SM, SP   	  A-2, A-3   	   0 	   0 	  90-100   	  70-100   	  60-80   	   0-25   	   0-20   	  NP-3   
	 	44-80	Loam, clay loam	CL-ML, CL 	A-6, A-4	0-1 	0-5	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Cathro, ponded	45	0-11	Muck	PT	A-8	,   0	j 0	100	100	i	i	i	i
j	ı i	11-23	Muck	PT	A-8	j 0	0	100	100	j	j	j	j
		23-60	Clay loam, loam	CL, CL-ML 	  A-6, A-4 	0-1 	0-5 	  95-100 	85-95 	75-90	50-75 	  25-40 	5-20 

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	nents		rcentago sieve n	_	ng	  Liquid	   Plas-
and	map unit		İ	İ		>10	3-10	i				limit	ticity
component name			İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
		In	I		l	Pct	Pct		l	l	I	Pct	
B211A:			 	Ī	 	 		 	 	 	 		
Chilgren	2	0-4	  Fine sandy loam 	ML, SM,	  A-2-4, A-4,   A-2	   0-1 	0-3	  90-100 	  85-100 	  60-85 	  25-55 	  15-35 	NP-10
		4-10	Fine sand, fine   sandy loam,   loamy fine   sand	SM, SP-SM	A-1, A-2-4, A-3, A-2	0   	0-2	95-100	95-100     	45-75     	5-30     	0-20	NP-3   
		10-18	Clay loam,   sandy clay   loam, loam	SC, CL	A-4, A-6   	0-1   	0-5   	95-100   	80-100   	70-100   	45-80   	20-40	7-20   
I		18-72	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		72-80	Loam, clay loam	CL-ML, CL	A-6, A-4 	0-1	0-5 I	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Grygla	2	0-6	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	  95-100	85-95	15-35	0-25	NP-5
	İ	6-26	Sand, fine   sand, loamy   fine sand	SC-SM, SM, SP-SM	  A-2-4, A-3 	0 	0-1	95-100   	90-100   	70-95   	5-35	0-20	NP-5 
	į	26-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Hamre	2	0-13	  Muck	   PT	  A-8	   0	   0	   100	   100	 	 		 
		13-18	Loam, clay   loam, silt   loam	CL-ML, CL	A-4, A-6   	0-1   	0-3   	90-100   	80-100   	70-100   	50-90   	25-40   	5-20   
j	į	18-35	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	ļ	35-80	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85 <b>-</b> 95	75 <b>-</b> 90	50-75	25-40	5-20
Northwood	2	0-9			  A-8	0	0	100	100	 	 		
			loam, loamy fine sand, loamy sand	SM, SC-SM   	A-2-4, A-4     	0     	   	95-100     	   	   	   	i i i	NP-10     
		14-24	Coarse sand,   fine sand,   loamy fine   sand	SM, SP-SM   	A-2-4, A-2,   A-3 	0     	0-3   	95-100     	80-100     	70-95     	5-35     	0-15     	NP-3     
į	į	24-80	Loam, clay loam	CL, CL-ML	  A-6, A-4 	0-1	0-5	95-100	85-95 	75-90 	  50-75 	  25-40 	5-20
Seelyeville,		0.10	   	 				1 100	     100		   		   
ponded   	2	0-10 10-80		PT PT	A-8  A-8 	0   0 	0   0 	100   100 	100   100 	   	   	   	 

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classi	fication	Frag	ments	•	_	e passi: umber	_	  Liquid	   Plas-
and	map unit				ı	>10	J 3-10	i '					ticity
component name		! 	i	Unified	AASHTO		inches	4	l 10	l 40	l 200		index
- Compositorio II dano	l	l In	1		1	Pct	Pct	<u> </u>		1		Pct	
	j i		į	İ	i	i	i	i	i	i	i	i	i
I1A:	j i		İ	ĺ	İ	ĺ	ĺ	İ	ĺ	İ	ĺ	İ	ĺ
Augsburg	75		Loam	ML	A-4	0	0	100	100	95-100	70-95	20-40	NP-10
		11-18	Loam, very fine	ML, CL-ML	A-4	0	0	100	100	95-100	80-90	0-30	NP-10
	!		sandy loam,	!	ļ	ļ	!	!		!	ļ		!
			silt loam	!									
	!	18-33	Loamy very fine	ML, CL-ML	A-4	0	0	100	100	95-100	75-90	0-30	NP-10
			sand, very		ļ	!	ļ				!		
			fine sandy   loam, loam,	 	ļ	-							
	 	l I	very fine sand	l I	I	l I	 	l i	 			1	
	! !	   33-60	Silty clay,	I CH	I   A-7	   0-1	   0-3	I 195-100	I   95-100	I   90-100	  75-95	  40-70	  20-45
	! !	33-00 	clay, silty	I	- 7	0-1	0-3 	JJ-100	55-100 	JU-100	/ J – J J	1 20-70	20-45 
	i	! 	clay loam	i	i	i	i	i	i	i	i	i	i
	i	i		i	i	i	i	i	i	i	i	i	i
Borup	10	0-12	Loam	ML	A-4	j o	j o	100	100	95-100	70-95	20-40	NP-10
	j i	12-34	Very fine sandy	ML, CL-ML	A-4	j 0	j 0	100	100	90-100	50-95	0-30	NP-10
			loam, silt			1							
			loam, loamy										
			very fine sand										
	<u> </u>	34-60	Loamy very fine	ML, CL-ML	A-4	0	0	100	100	85-100	35-90	0-30	NP-10
	!		sand, very		!	ļ	!	ļ	ļ	ļ	ļ	!	ļ
	!		fine sand,		ļ	ļ.	ļ	ļ		ļ	ļ	!	!
	!		very fine			ļ	!		!	!	ļ		
			sandy loam		-	ļ		ļ					
Foxlake	l 5	l   0-19	Loam	CL-ML, CL	  A-4, A-6	   0-1	   0-2	  95-100	I   90-100	l 175-90	1 150-80	120-40	   5-20
	i		Silty clay,	CH	A-7	0-1		•	•	•	•	40-70	
	i i		clay, silty	İ	i	i	i	i	i	i	i	i	i
	j i	İ	clay loam	į	i	i	i	İ	i	İ	i	i	İ
	j i	38-49	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
	j i		clay, silty	ĺ	İ	ĺ	ĺ	İ	İ	İ	ĺ	İ	İ
			clay loam		1								
		49-80	1	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty										
	! !		clay loam	!	ļ	ļ	!	!					

Map symbol	   Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit		İ	İ	I	>10	3-10	İ				limit	ticity
component name			L	Unified	AASHTO	inches	inches	4	10	40	200	L	index
		In	[		[	Pct	Pct			ļ	ļ	Pct	
I1A:	 		] 	 	] 	l I	 	 	 	 	 	 	 
Augsburg,	İ		İ	ĺ	İ	İ	İ	İ	İ	İ	ĺ	İ	İ
depressional	3	0-11	Mucky loam	ML	A-4	0	0	100	100	95-100	70-95	0-25	NP-10
		11-18	Loam, very fine   sandy loam,   silt loam	CL-ML, ML   	A-4   	0   	0   	100   	100   	95-100   	80-90   	0-30	NP-10   
		18-33	Loamy very fine sand, very fine sandy loam, loam	ML, CL-ML   	  A-4   	0	0   	100     	100     	  95-100   	  80-90   	0-30	NP-10     
		33-60		  CH   	  A-7   	0-1	   0-3   	  95-100   	  95-100   	  90-100   	  75-95   	40-70   	  20-45   
Wheatville	   3   	0-9	  Very fine sandy   loam	  CL-ML, ML, CL 	  A-4 	0	   0 	   100 	   100 	  90-100 	  50-95 	  15-35 	  NP-10 
   		9-31	Silt loam, very   fine sandy   loam, loam	CL, ML, CL-ML	  A-4 	0   	   0 	   100   	   100   	  90-100   	  85-95   	0-30	  NP-10 
		31-80	Silty clay,   clay, silty   clay loam	Сн   	A-7   	0-1   	0-3   	95-100   	95-100   	90-100   	75-95   	40-70 	20-45   
Glyndon	   2   	0-11	  Very fine sandy   loam	  CL-ML, CL, ML 	  A-4 	   0 	   0 	   100 	   100 	  95-100 	  50-90 	  20-30 	  NP-10 
		11-28	Silt loam, very   fine sandy   loam, loam	ML, CL-ML	  A-4 	0 	0 	   100 	   100 	90-100   	85-95 	0-30	  NP-10 
		28-60	Loamy very fine   sand, very   fine sand,   very fine   sandy loam	  CL-ML, ML, SM       	  A-4     	0       	   0       	   100       	   100       	  85-100       	  45-90       	0-30       	  NP-10       
Espelie	   1   	0-9	  Fine sandy loam 	SC, SM, CL,	  A-2-4, A-4 	0	   0 	  95-100 	  85-100 	  60-85 	  30-65 	0-25	  NP-10 
		9-24	Loamy sand, loamy fine sand, fine sand	SM, SP-SM     	A-2, A-3,   A-1, A-2-4 	0   	0-5     	85-100     	  60-100     	30-80     	5-40     	0-20   	NP-3     
		24-80		  CH   	  A-7   	0-1   	   0-3   	  95-100   	  95-100   	  90-100   	  75-95     	40-70   	  20-45   

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif:	ication	Fragi	ments	•	rcentage		ng	  Liquid	   Plas-
and	map unit		[	]	ļ	>10	3-10	ļ				limit	
component name				Unified	AASHTO	inches		4	10	40	200	<u> </u>	index
	 	In	 	 	 	Pct 	Pct 	 	 	 	 	Pct	 
I1A:	i i	İ	İ	 	İ	İ	İ	İ	İ	İ	İ	i	i
Hattie	1	0-8	Clay	CH, CL	A-7	0-1		•			•	45-70	
	 	8-22   	Silty clay,   clay, silty   clay loam	Сн   	A-7   	0-1   	0-3   	95-100   	95-100   	90-100   	75-95   	40-70   	20-45   
	     	22-80	Silty clay, clay, silty clay loam	CH   	<b>A-</b> 7     	0-1   	0-3   	95-100     	95-100     	90-100     	75-95     	40-70   	20-45     
I3A:	i i		į	İ	İ	į	İ	İ	İ	İ	İ	i	i
Berner	80	0-28			A-8	0	0	100	100				
	     	28-31   	Sandy loam,   fine sandy   loam, gravelly   sandy loam	SC-SM, SC, SM     	A-2-4, A-2,   A-4 	0     	0     	90-100     	70-100     	50-85     	10-50     	15-25     	NP-10     
		31-44		  SP, SP-SM, SM   	A-2-4, A-2,   A-3 	     	   0 	  90-100   	  70-100   	  60-80   	   0-25   	0-20   	NP-3   
	 	44-80 	Loam, clay loam	CL, CL-ML	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Northwood	7	0-9	Muck	PT	  A-8	0	0	100	100	i	i	i	i
	 	9-14   	Fine sandy   loam, loamy   fine sand,   loamy sand	SM, SC-SM     	A-2-4, A-2,   A-4 	0     	0-3     	  95-100     	90-100     	50-85     	15-50     	0-25     	NP-10     
	   	 	fine sand,   loamy fine   sand	 	A-2-4, A-2,   A-3 	0     	   	   	80-100     	   	   	i   	   
	 	24-80 	Clay loam, loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95 <b>-</b> 100 	85-95 	75-90 	50-75 	25-40 	5-20 
Kratka	5	0-11	Fine sandy loam	SM, SC-SM	A-4	,   0	0	95-100	90-100	50-80	35-50	0-25	NP-10
	 	11-18   	Loamy sand,   sand, loamy   fine sand	SM, SP-SM,   SW-SM 	A-2-4, A-3   	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20   	NP-3   
	 	18-25   	Loamy sand, sand, sand, sand	SM, SW-SM, SP-SM	A-2-4, A-2,   A-3 	i o   	   0 	  95-100   	90-100   	  50-80   	5-35   	0-20   	NP-3   
	 	25-80 	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Hamre	3	0-13	Muck	PT	  A-8	0	0	100	100	i	i	i	i
	   	13-18   	Loam, clay   loam, silt   loam	CL-ML, CL   	A-4, A-6   	0-1   	0-3   	90-100   	80-100   	70-100   	50-90   	25-40   	5-20   
	j i	18-71	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	71-80 	Clay loam, loam 	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 

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Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	_	_	  Liquid	   Plas-
and	map unit		[			>10	3-10					limit	ticity
component name			L	Unified	AASHTO	inches	inches	4	10	40	200		index
		In			ļ	Pct	Pct	ļ	ļ		ļ	Pct	
I3A:			 	 	 		 	 	 	 	 		 
Strathcona	3	0-10	Fine sandy loam	SC-SM, CL-ML,	A-4 	0 	0 	95 <b>-</b> 100 	90-100 	70-85 	40-55 	0-25 	NP-10 
		10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4   	0   	0     	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
		17-28	Sand, fine   sand, loamy   fine sand	SM, SP-SM   	A-3, A-2-4,   A-2	0   	0-1   	  95-100   	  85-100   	60-80   	3-30   	0-20   	NP-3   
		28-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85 <b>-</b> 95	75-90 	50-75	25-40	5-20
Seelyeville	2	0-10	  Muck	  PT	A-8	0	   0	100	1 100	 			 
		10-80	Muck, mucky   peat	PT   	A-8 	0	0   	100   	100   	   	 	 	   
I4A:			İ	İ	İ	i	 		 	 			
Berner	30   	0-28 28-31		PT  SC, SC-SM, SM     	A-8  A-2-4, A-2,   A-4 	0   0   	0   0   	100  90-100     	100  70-100     	  50-85     	  10-50     	  15-25     	  NP-10   
		31-44		  SP, SM, SP-SM   	A-2-4, A-2,   A-3	0	   0 	  90-100   	  70-100   	  60-80   	0-25   	0-20	NP-3   
	 	44-80	Loam, clay loam	CL-ML, CL	A-6, A-4 	0-1 	0-5 	95-100 	  85-95 	75-90	50-75 	25-40 	5-20 
Rosewood,													
depressional	30   		loam, sandy loam, loamy fine sand	SM, SC-SM     	A-2-4, A-4  A-2-4, A-4     	0   0   	0   0   	95-100  95-100     	  95-100     	  65-85     	  15-50     	20-30     	NP-10  NP-10   
	 	18-80	Fine sand, sand   	SP-SM, SM   	A-1, A-2-4,   A-3 	0   	0   	85-100   	75-100   	45-75   	5-35   	0-20   	NP-3   

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	   USDA texture	Classif	ication	Fragi	ments	•	rcentag sieve n	_	_	  Liquid	   Plas-
and	map unit					>10	3-10	l				limit	ticity
component name				Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct					Pct	
												1	
I4A:	!		!	!	ļ	ļ	!	!	ļ	!	!	!	!
Strathcona,													
depressional	30	0-10	Mucky fine	SM, SC-SM,	A-4	0	0	95-100	90-100	70-85	40-55	0-25	NP-10
	 	   10_17	sandy loam	ML, CL-ML SM, SC-SM	  A-2-4, A-4	I I 0	I I 0	   05_100	   05_100	  65_95	115-50	  20-30	   NTD_10
	! !	10-17 	loam, sandy	BM, BC-BM	A-2-1, A-1	1	1	33-100	 	102-03	1	20-30 	I I
	i		loam, loamy	i I	i I	i	i	i	i	i	i	i	<u> </u>
	i i	i	fine sand	İ	İ	i	i	i	i	i	i	i	i
	j i	17-28	Sand, fine	SM, SP-SM	A-3, A-2-4,	0	0-1	95-100	85-100	60-80	3-30	0-20	NP-3
	j i		sand, loamy	ĺ	A-2	ĺ	ĺ	İ	ĺ	ĺ	İ	İ	ĺ
			fine sand										
	! !	28-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
D													
Rosewood	4	0-8	Fine sandy loam  Fine sandy		A-2-4, A-4  A-2-4, A-4	0   0	0   0		95-100		•	20-30	NP-10
		   0-10	loam, sandy	SC-SM, SM	A-2-4, A-4	1	1	  95-100	  95-100	103-03	125-30	20-30 	NP-10
	i		loam, loamy	i I	i I	i	i	i	i	i	i	i	<u> </u>
	i i	i	fine sand	İ	İ	i	i	i	i	i	i	i	i
	j i	18-80	Fine sand, sand	SP-SM, SM	A-1, A-2-4,	0	j 0	85-100	75-100	45-75	5-35	0-20	NP-3
	j i		İ	ĺ	A-3	ĺ	ĺ	İ	ĺ	ĺ	İ	İ	ĺ
Deerwood	2	0-10	•	PT	A-8	0	0	100	100			!	
	!	10-12	Fine sand,	SM, SC-SM	A-2-4, A-2,   A-4	0	0-2	95-100	90-100	50-75	15-50	0-25	NP-10
	 	l I	loamy sand,   fine sandy	l I	A-4	 	 	 	 	 		!	 
	! !		loam	l I	I I	i i	i i	! 	i i	i	1	1	! 
	i i	12-60	Fine sand,	SP-SM, SP, SM	A-1, A-2, A-3	0	0-5	  75-100	55-100	35-70	0-25	0-20	NP-3
	j i		sand, gravelly		į	i	i	i	i	i	i	i	İ
	j i		sand	ĺ	İ	ĺ	ĺ	İ	ĺ	ĺ	İ	İ	ĺ
												1	
Mavie	2		Fine sandy loam	•	A-4	0	•		90-100		•		NP-10
	!	12-18	Loam, fine	SC-SM, CL-ML,	A-4, A-6	0	0-5	95-100	85-100	65-95	15-75	20-35	NP-15
			sandy loam, sandy loam	SM, SC							!	!	 
		   18-39	Very gravelly	GP, GP-GM,	  A-1	I I 0	l   2-5	I   30-65	  15-45	   5-40	   0-10	0-20	  ND-3
	:	10-35 	coarse sand,	SP, SP-SM		i	<u>2</u> -3	30-03 	1 1 2 1 2 2	] J-40	1	0-20	NE - 5
	i i	i	very gravelly	i '	İ	i	i	i	i	i	i	i	i
	j i		sand, very	İ	į	i	i	i	i	i	i	i	i
	j i	ĺ	gravelly loamy	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
	l i		sand										
		39-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Map symbol	Pct. of	Depth	USDA texture	Classif:	ication	Frag	ments		rcentag sieve n	_	ng	  Liquid	   Plas-
and	map unit		ļ	!		>10	3-10	ļ				limit	
component name				Unified	AASHTO		inches	4	10	40	200		index
		In	!			Pct	Pct	ļ	!	!	!	Pct	ļ
						!	!	!	!		ļ	!	
I4A:		0 10											
Strathcona	2	0-10	Fine sandy loam	ML, SC-SM	A-4	0	0	195-100	90-100	70-85 	40-55 	0-25	NP-10
		10-17	  Fine sandy	•	  A-2-4, A-4	l l 0	I I 0	   95-100	I   95-100	l   65-85	I  15-50	20-30	  ND-10
		10 17	loam, sandy				   		   	   	   		
	i		fine sand	İ	i I	i	! 	i	İ	i i	İ	i	i
	i	17-28		SM, SP-SM	A-2-4, A-2,	i o	0-1	95-100	  85-100	60-80	3-30	0-20	NP-3
	İ		sand, loamy	j I	A-3 	İ	i I	j I	i I	 	i I	į į	į I
	İ	28-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
I5A:			I I	! 	 		! !	i	! !	l I	! !		
Borup	75	0-12	Loam	  ML	  A-4	0	0	100	100	  95-100	  70-95	20-40	NP-10
-	i	12-34	  Very fine sandy	ML, CL-ML	A-4	0	,   0	100		90-100			NP-10
			loam, silt										
į			loam, loamy										
			very fine sand	•									
		34-60	Loamy very fine	CL-ML, ML	A-4	0	0	100	100	85-100	35-90	0-30	NP-10
			sand, very fine sand,	l I	l I	l i	 	l i	 	l I	 		 
			very fine	! 	 		! !	i	! !	l I	! !		
			sandy loam	į		į	į			İ	į		į
Glyndon	9	0-11	  Very fine sandy	  CL-ML, ML, CL	  A-4	0	   0	   100	   100	  95-100	  50-90	  20-30	  NP-10
	l I		loam										
		11-28	Silt loam, very	ML, CL-ML	A-4	0	0	100	100	90-100	85-95	0-30	NP-10
			fine sandy					!				!	
		28-60	loam, loam  Loamy very fine	lew wt ct_wt	   a _ 4	   0	l I o	   100	   100	  85-100	  45_90	0-30	  NP-10
		20-00	sand, very	SM, ML, CL-ML	A-4	1	<sup>0</sup>	1 100	100 	   63 <b>-</b> 100	45 <b>-</b> 90	U-30	NP-10
	i		fine sand,	i I	! 	i	! 	i	i i	i i	i I	i	i
	i		very fine	İ	! 	i	İ	i	i	İ	i	i	i
			sandy loam	į		į	į	į	į	İ	į	į	į
Rosewood	8	0-8	  Fine sandy loam	  SM, SC-SM, SC	  A-2-4, A-4	0	   0	  95-100	  95-100	  65-90	  30-50	0-25	  NP-10
		8-18	Fine sandy	SM, SC-SM	A-2-4, A-4	0	0	95-100	95-100	65-85	15-50	20-30	NP-10
			loam, sandy										
			loam, loamy				ļ		ļ	l	ļ	!	
		10.00	fine sand	law an aw					 				
		T8-80	Fine sand, sand	SM, SP-SM	A-1, A-2-4,   A-3	0	0 	85-100	   \2-T00	45-75 	5-35 	0-20	NP-3
į	!		!	I	1 2-2	1	I	I	I	I	I	1	I

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage		ng	  Liquid	   Plas-
and	map unit	201011			I	>10	3-10	; ·	32313 22				ticity
component name			i	Unified	AASHTO	inches	inches	4	10	40	200	i	index
		In	į.			Pct	Pct					Pct	<u> </u>
I5A:	 		 	 			 	 	 	 	 	 	 
Augsburg	5	0-11	Loam	ML	A-4	0	0	100	100	95-100	70-95	20-40	NP-10
	 	11-18	Loam, very fine   sandy loam,   silt loam	ML, CL-ML   	A-4   	0   	0   	100   	100   	95-100   	80-90   	0-30   	NP-10   
		18-33	Loamy very fine   sand, very   fine sandy   loam, loam,   very fine sand	i I I	A-4     	0     	0       	100       	100       	95-100       	75-90       	0-30       	NP-10       
		33-60	Silty clay,   clay, silty   clay loam	CH   	  A-7   	0-1   	0-3     	  95-100     	  95-100     	  90-100     	  75-95     	  40-70     	20-45     
Augsburg,			į	İ		į	<u> </u>	į			į	į	
depressional	3			ML	A-4	0	0	100		95-100			NP-10
		11-18   	Loam, very fine   sandy loam,   silt loam	ML, CL-ML   	A-4   	0   	0   	100   	100   	95-100   	80-90   	0-30   	NP-10   
		18-33	Loamy very fine sand, very fine sandy loam, loam	ML, CL-ML     	A-4   	0     	0     	100     	100     	95-100     	80-90     	0-30     	NP-10     
		33-60		  CH   	  A-7   	0-1     	0-3     	  95-100     	  95-100     	  90-100     	  75-95     	  40-70     	20-45     
I7A:	45	0-38	 	    PT	    A-8	j I 0	   0	   100	   100	į	į	į	į
Bowstring	45         		Stratified sand to fine sandy loam	SC-SM, SM,	A-6  A-2 	0	0   0 	100   100 	100   100 	  50-85 	  10-35 	  15-20 	  NP-5 
		47-80		  PT 	A-8	0	   0	100	   100		 		
Fluvaquents	45	0-16	  Fine sandy loam 	  CL-ML, SC-SM,   SM, ML	  A-4 	   0 	   0 	  95-100 	  90-100 	  70-85 	  40-55 	   0-25 	  NP-10 
		16-80	Stratified   loamy sand to   silt loam	CL, ML, SM	A-1, A-3,   A-4, A-6	0   	0   	95-100     	  70-100   	35-95     	5-80     	0-40   	NP-15   
Hapludolls	5		  Loam  Clay loam, silt	  CL-ML, CL  CL, SC-SM,	  A-4, A-6  A-4, A-6	   0   0-1		  95-100  95-100					   5-15   5-20
			loam, loam	SC, CL-ML	i I	İ	   	i I	   	i I	i I	i I	İ I
Water	5		i	i i	i	j	i i i	i I	 	i I	i   	i I	j

'	   Pct. of	Depth	USDA texture	Classif: 	ication	_i	ments	•	rcentage sieve n	e passi: umber	ng	  Liquid	   Plas-
	map unit			   Unified	   AASHTO	>10  inches	3-10	   4	l 10	l 40	l 200	limit	ticity
component name	<u> </u>	In	<u> </u>	Unified	AASHTO	Pct	Pct	<del>4</del>		40 	200	Pct	Index
I8A:	 		 				 	 	 	 	 	 	 
Cathro	80	0-11	Muck	PT	A-8	0	0	100	100			j	
			Muck		A-8	0	0	100	100				
	 	23-60	Loam, clay loam	CL-ML, CL	A-6, A-4 	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Hamre	8	0-13	Muck	PT	  A-8	0	0	100	100			i	i
	 	13-18	Loam, clay   loam, silt   loam	CL-ML, CL   	A-4, A-6   	0-1   	0-3   	90-100   	80-100   	70-100   	50-90   	25-40   	5-20   
	i i	18-71	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	į į	71-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Northwood	   3	0-9	  Muck	  PT	  A-8	   0	   0	   100	   100	 	 	 	
	 	9-14	loam, loamy	SM, SC-SM   	A-2-4, A-2,   A-4 	i o I I	0-3   	95-100   	90-100   	50-85   	15-50   	0-25	NP-10 
	 	14-24	loamy sand  Coarse sand,   fine sand,   loamy fine   sand	  SM, SP-SM     	  A-2-4, A-2,   A-3 	   0   	   0-3   	  95-100     	  80-100     	  70-95     	   5-35     	   0-15     	  NP-3   
	 	24-80	Clay loam, loam	CL-ML, CL	  A-6, A-4	0-1	   0-5 	95-100	  85-95 	75-90	  50-75	25-40	5-20
Roliss	3	0-14	  Loam	CL-ML, CL	  A-4, A-6	0-1	   0-5	  95 <b>-</b> 100	  80-100	  80 <b>-1</b> 00	  60-90	20-40	5-20
		14-20	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Loam, clay loam	CL-ML, CL	A-6, A-4 	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Berner	2	0-28	Muck	I PT	  A-8	0	0	100	100	¦		i	i
	 	28-31	Sandy loam,   fine sandy   loam, gravelly   sandy loam	SC, SC-SM, SM     	A-2-4, A-2,   A-4 	0   	0     	90-100     	70-100     	50-85     	10-50     	15-25     	NP-10     
	 	31-44	Sand, loamy   sand, gravelly   sand	SP, SP-SM, SM   	A-2-4, A-2,   A-3 	0   	0   	90-100   	70-100   	60-80   	0-25   	0-20   	NP-3   
	 	44-80	Loam, clay loam	CL-ML, CL 	A-6, A-4 	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Kratka	2		Fine sandy loam	SC-SM, SM	A-4	0		95-100			35-50		NP-10
	 	11-18	Loamy sand, sand, loamy fine sand	SW-SM, SM,   SP-SM 	A-2-4, A-3   	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20   	NP-3   
	 	18-25	Loamy sand, sand, sand, sand	SM, SW-SM,	A-2-4, A-2, A-3	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20	NP-3 
	j j	25-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	   Depth	USDA texture	Classi	fication	Fragi	ments		rcentage	_	ng	  Liquid	   Plas-
and	map unit	ĺ	İ	İ	1	>10	3-10	İ				limit	ticity
component name			<u> </u>	Unified	AASHTO	inches	inches	4	10	40	200		index
		In			ļ	Pct	Pct	!		ļ	ļ	Pct	
18A:	 	 	 	 	-		l I	 	 	 	l I		l I
Seelyeville	2	0-10	Muck	PT	A-8	0	0	100	100	i	i	i	i
	j	10-80	Muck, mucky	PT	A-8	j 0	0	100	100	j	j	j	j
			peat			-						ļ	
19A:	 	l I	 	l I	-	l I	l I	l I	 	l I	l I		l I
Clearwater	80	0-8	Clay	CL, CH	A-7	0-1	0-1	95-100	95-100	90-100	  70-95	45-70	20-50
	į	8-35	Clay, silty	CL, CH	A-7	0-1	0-3	95-100	95-100	90-100	70-95	40-70	20-45
	İ	İ	clay, silty	İ	j	İ	İ	İ	İ	İ	İ	İ	İ
	ĺ	ĺ	clay loam	İ	į	j	ĺ	İ	ĺ	ĺ	ĺ	İ	İ
		35-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty										
			clay loam										
Clearwater, very	 	 	 	 	-		l I	 	 	 	l I		l I
cobbly	5	0-8	Clay	CL, CH	A-7	1-3	1-10	  95-100	  95-100	90-100	70-95	45-70	20-50
	j	8-35	Clay, silty	CL, CH	A-7	0-1	0-3	95-100	95-100	90-100	70-95	40-70	20-45
			clay, silty										
			clay loam										
		35-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
	!		clay, silty	!				!	!	!	!	!	!
	 	 	clay loam				 		 	 			
Reis	l   5	   0-9	Clay	CH, CL	  A-7	0-1	   0-1	  95-100	  95-100	  90-100	  70-95	  45-70	  20-50
	ĺ	9-17	Clay, silty	CL, CH	A-7	0-1	0-3	95-100	95-100	90-100	70-95	45-75	20-50
			clay										
		17-33	Clay, silty	CL, CH	A-7	0-1	0-3	95-100	95-100	90-100	70-95	45-75	20-50
	!		clay	!				!	!	!	!	!	!
	ļ	33-42	Clay, silty	CH, CL	A-7	0-1	0-3	95-100	95-100	90-100	70-95	45-75	20-50
	l I	   42=60	clay  Silty clay,	  CH	  A-7	   0-1	l l 0-3	   95_100	   05_100	   90_100	  75_95	  40-70	  20-45
		42-00 	clay, silty	l l	A-7 	1 0-1	l 0-3	33-100	   33-100	30-100	/ 3 - 3 3 	<del>1</del> 0-70	20-45 
	i	! 	clay loam	i	i		l I	i	i i	! 	i	i	i
	i	   60-80	Silty clay,	CH	A-7	0-1	0-3	95-100	  95-100	  90-100	  75-95	40-70	20-45
	i	İ	clay, silty	İ	i	i	İ	i	i	i	i	i	i
	j	j	clay loam	İ	j	j	İ	İ	į	į	İ	İ	į
		ļ	ļ.	ļ	Ţ			!	!	!	!	!	
Clearwater, depressional	   3	   0-8	  Mucky clay loam	l ar	  A-6	   0	   0-3	   05 100	   05 100		   60 0 =	  25-40	110 20
debressionar	l 3		Clay, silty	CH, CL	A-6  A-7	0   0-1						25-40   40-70	
		l 0-35	clay, silty		6-7	1 0-1	l 0-1	122-100	122-100	120-100	 	<del>-</del> 20-70	20-43
	i	i I	clay loam	i	i	1	İ	i	i	i	i	i	i
	i	35-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
	į	İ	clay, silty	İ	i	i	İ	i	i	į	į	i	İ
	I		clay loam			İ						1	
	I				1				I				

and map unit	limit  t 				Liqu		unber	sieve n	 :		ļ			SDA texture	Depth	Pct. of	Map symbol
IDA:    Sepelie		Pct		limit	_ limi							ļ				map unit	
T9A:  Espelie	Pct   	Pct				200	40	10	4			AASHTO	Unified				component name
Espelie			Pct	Pct	Pct	!	!			Pct	Pct	ļ			In		
Espelie	1 1		!		!	ļ	!	ļ	!								
	0-25  N		į		į	İ	į	İ	į		j j	İ	ML	_		3	Espelie
	0-20 N	0-20	0-20	0-20	0-2	5-40	30-80	60-100	85-100	0-5	0		P-SM, SM	_	9-24		
Sand	!!		!		!	!	!	!	!		!!!	A-1, A-2-4		_			
24-80   Silty clay,   CH   A-7   0-1   0-3   95-100   95-100   90-100   75-90	!!		!		!	!	!	!	!		!!!	ļ		-			
Foxlake	! !.				1							! _					
Foxlake	40-70  2	40-70	40-70	40-70	40-7	75-95	90-100	95-100	95-100	0-3	0-1	A-7	H		24-80		
Foxlake	!!		!		!	ļ	!	ļ	!								
19-38   Silty clay,   CH   A-7   0-1   0-3   95-100   95-100   90-100   75-9						l I	 	l I	l I		 	1		lay loam		 	
clay, silty   clay loam	20-40	20-40	20-40	20-40	20-4	50-80	75-90	  90-100	95-100	0-2	0-1	A-4, A-6	L-ML, CL	am	0-19	2	Foxlake
	40-70  2	40-70	40-70	40-70	40-7	75-95	90-100	95-100	95-100	0-3	0-1	A-7	H		19-38		
38-49   Silty clay,   CH   A-7   0-1   0-3   95-100   95-100   90-100   75-90	!!!																
clay, silty	!!!													-			
	40-70   2	40-70	40-70	40-70	40-7	75-95	90-100	95-100	95-100	0-3	0-1	A-7	H				
Hattie	!!		!		!	!	!	!			!!!	ļ					
Hattie						 								-			
Hattie	40-70  2	40-70	40-70	40-70	40-7	75-95	90-100	95-100	95-100	0-3	0-1	A-7	Н				
Hattie	!!		!		-	!	!										
8-22   Silty clay,   CH   A-7   0-1   0-3   95-100   95-100   90-100   75-90			-		-	l I	l I	l I	l I		 			lay loam			
8-22   Silty clay,   CH   A-7   0-1   0-3   95-100   95-100   90-100   75-90	145-70   2	45-70	ا 15-70 :	45-70	  45-7	I   70-95	  90-100	I   95-100	  95-100	0-1	I 0-1 I	  A-7	L. CH	av	0-8	1 1	Hattie
						•	•	•				1		-		_	
											-	i					
clay, silty	i i		i		i	İ	i	i	i		i i	i				j i	
clay loam	40-70 2	40-70	40-70 i	40-70	40-7	75-95	90-100	95-100	95-100	0-3	0-1	A-7	н	lty clay,	22-80	j i	
Huot 1   0-14   Fine sandy loam   SM, SC-SM   A-4   0   0   90-100   75-100   50-85   25-5	i i		į		İ	İ	i	İ	İ	İ	į į	İ		lay, silty		İ	
	į į		į		İ	ĺ	İ	ĺ	ĺ			İ		lay loam			
	0-30   N	0-30	0-30	0-30	0-3	  25-55	  50-85	  75-100	  90-100	0	   0	  A-4	M, SC-SM	ne sandy loam	0-14	   1	Huot
14-26   Loamy fine   SM, SC-SM   A-2-4, A-4   0   0   95-100   95-100   60-85   25-5	15-25  N	15-25	15-25	15-25	15-2	25-55	60-85	95-100	95-100	0	0	A-2-4, A-4	M, SC-SM	amy fine	14-26	į i	
sand, fine	i i		i		i	į	i	į	į		i i	į		and, fine		j i	
sandy loam	i i		i		i	į	i	į	į		i i	İ		andy loam		j i	
26-34 Loamy fine   SM, SP-SM   A-2-4, A-3,   0   0   90-100   75-100   50-80   5-3	0-20 N	0-20	0-20	0-20	0-2	5-35	50-80	75-100	90-100	0	0	A-2-4, A-3,	M, SP-SM	amy fine	26-34	į į	
sand, fine   A-2	i i		į		İ	İ	į	İ	İ	İ	į į	A-2		and, fine		į į	
sand	I İ		į		1	l	1	l			l İ			and		l İ	
34-80   silty clay,   CH   A-7   0-1   0-3   95-100   95-100   90-100   75-9	40-70 2	40-70	40-70	40-70	40-7	75-95	90-100	95-100	95-100	0-3	0-1	A-7	н	lty clay,	34-80	l İ	
clay, silty	1		į								l İ			lay, silty		l İ	
clay loam	1		į								l İ			lay loam		l İ	

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	   USDA texture	Classif	ication	Fragi	nents		rcentage sieve n	-	_	  Liquid	
and	map unit		!		<u> </u>	>10	3-10	ļ				limit	ticity
component name			L	Unified	AASHTO		inches	4	10	40	200	L	index
		In	 	 	 	Pct 	Pct	 	 	 	 	Pct 	 
I11A:												!	
Deerwood	85		Muck	1	A-8	0	0	100	100				
		10-12	Fine sand,   loamy sand,   fine sandy   loam	SC-SM, SM     	A-2-4, A-2,   A-4 	0     	0-2   	95-100     	90-100     	50-75     	15-50     	0-25     	NP-10     
	 	12-60	Fine sand,   sand, gravelly   sand 	SP-SM, SM, SP     	A-1, A-2, A-3     	0     	0-5   	75-100     	55-100     	35-70     	0-25     	0-20     	NP-3     
Rosewood	6	0-8	Fine sandy loam	SC, SC-SM, SM	A-2-4, A-4	j 0	0	95-100	95-100	65-90	30-50	0-25	NP-10
	 	8-18	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0   	95-100     	95-100     	65-85     	15-50     	20-30	NP-10     
		18-80	Fine sand, sand	SM, SP-SM   	A-1, A-2-4,   A-3	   0 	0	  85-100   	75-100   	45-75 	5-35	0-20	NP-3 
Markey	3	0-32	Muck	PT	  A-8	0	0	100	100	i	i	i	i
-		32-60	Fine sand,   loamy sand,   coarse sand	  SP, SM, SP-SM   	A-2, A-3,   A-2-4 	0     	0   	   100   	  75-100     	  60-75     	0-20     	0-20     	NP-3     
Strathcona	2	0-10	  Fine sandy loam 	CL-ML, ML,	  A-4 	   0 	0	  95-100 	  90-100 	70-85	  40-55 	0-25	  NP-10 
		10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0   	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
		17-28	Sand, fine   sand, loamy   fine sand	SP-SM, SM   	A-2-4, A-3,   A-2 	   0 	0-1 	  95-100   	  90-100   	50-80   	5-30 	0-20   	NP-3   
	i i	28-80	Clay loam, loam	CL, CL-ML	  A-6, A-4 	   0-1 	0-5	95-100 	85-95 	75-90 	  50-75 	25-40 	5-20

|95-100|90-100|50-80 | 5-35 | 0-20 |NP-3

0-1 | 0-5 | 95-100 | 85-95 | 75-90 | 50-75 | 25-40 | 5-20

Map symbol and	Pct. of	   Depth	USDA texture	Classi	fication	Fragi     >10	ments		rcentag sieve n	_	-	  Liquid	
component name	map unit 	 		   Unified	   AASHTO		3-10  inches		l 10	l 40	l 200	limit 	index
		In	!		!	Pct	Pct					Pct	
I11A:	] 	 	 			 	 	 	 	 	 	 	 
Syrene	2	0-9	Sandy loam	SC-SM, SM	A-4	0-1	0-3	95-100	80-100	60-75	20-45	0-25	NP-10
	 	9-17 	Loam, sandy   loam, sandy   clay loam	SC-SM, CL,	A-4 	0 	0-5 	95 <b>-1</b> 00 	85-100 	50-75 	15-65 	20-35	5-15 
		   17-27     	Stratified   loamy fine   sand to   gravelly   coarse sand	  SP, SP-SM     	A-1, A-2, A-3	   0-1     	   0-5     	  70-95     	  55-80     	  30-60     	0-10       	0-20     	  NP-3     
		   27-60     	Stratified   loamy fine   sand to   gravelly   coarse sand	  SP, SP-SM   	A-1, A-2, A-3	   0-1     	   0-5       	  70-95       	  55-80       	  30-60       	0-10       	0-20       	  NP-3     
Venlo	l   2	   0-13	  Fine sandy loam	  SC-SM, SM	  A-2-4, A-4	I I 0	I I 0	1 100	  95-100	  50-85	  30-50	   0-25	  NP-5
	     	•	Fine sand,   loamy sand,   loamy fine   sand	SM, SP-SM,	A-3, A-2-4   	0       	0     	•			5-35     	•	•
I12A:	 	l İ	l I			! 	l I	i i	i i	i			 
Eckvoll	70	0-9	Loamy fine sand	SC-SM, SM	A-2	0-1	0-2	90-100	85-100	65-80	15-30	0-20	NP-5
	 	9-25   	Fine sand,   sand, loamy   fine sand	SM, SP-SM	A-1, A-2, A-3	0   	0-2   	95-100	95-100   	45-75   	5-30   	0-20	NP-3   
	 	25-32   	Clay loam,   sandy clay   loam, loam	sc, cl 	<b>A</b> -6 	0 	0-5   	90-100   	75-100   	60-95   	  45-75   	25-40	  10-20   
		32-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Kratka	   8	   0-11	  Fine sandy loam	SC-SM, SM	  A-4	   0	   0	  95-100	  90-100	  50-80	  35-50	0-25	  NP-10
		11-18 	Loamy sand,   sand, loamy   fine sand	SP-SM, SM,	A-2-4, A-3	0 	0 	95-100	90-100   	50-80 	5-35	0-20	NP-3 
	!		1 Time band	!	1	!	!	!	!	!	!	!	!

A-2-4, A-2,

A-3

A-6, A-4

| 18-25 | Loamy sand,

sand

sand, fine

25-80 | Clay loam, loam | CL, CL-ML

SM, SP-SM,

SW-SM

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	nents		rcentago sieve n	_	-	  Liquid	   Plas-
and	map unit					>10	3-10	. ·				limit	•
component name			i	Unified	AASHTO		inches	4	10	40	200	İ	index
		In	[			Pct	Pct					Pct	
I12A:			 	 	 	 	 	 	 	 			
Smiley	7	0-12	Loam	CL-ML, CL, ML	A-4, A-6	0-1	0-2	95-100	85-100	70-95	50-80	15-35	2-12
		12-19	Clay loam,   loam, silty   clay loam	CL   	A-6   	0-1   	0-3   	95-100   	85-100   	70-95   	50-80   	25-40   	10-20   
	İ	19-42	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		42-80	Clay loam, loam	CL-ML, CL	A-6, A-4 	   0-1 	0-5	95-100 	85-95 	75-90 	50-75 	25-40	5-20
Linveldt	5	0-9	Fine sandy loam	SC-SM, SM	A-2-4, A-4	i o	0-5	95-100	95-100	65-90	20-50	0-25	NP-10
		9-16		CL, CL-ML,   SC, SC-SM	A-2-4, A-4   	   0-1 	0-5 	  95-100   	  80-100   	  50-90   	  25-75   	20-30   	5-10   
		16-29	Loamy sand, sand, sand, coarse sand	SC-SM, SM,	A-1, A-2, A-3   	0-1   	0-5   	65-100   	55-100   	30-80   	5-30   	0-20	NP-3   
		29-45	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		45-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85 <b>-</b> 95 	75-90 	50-75 	25-40	5-20
Reiner	5		  Fine sandy loam	  SC-SM, SM	  A-4	0						15-35	
		7-17	Clay loam,   loam, sandy   clay loam	CL 	A-6   	0   	0-3   	85-100   	75-100   	60-95   	55-80   	25-40   	10-20   
		17-35	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		35-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85 <b>-</b> 95	75 <b>-</b> 90	50-75	25-40	5-20
Foldahl	2	0-12	Loamy fine sand	  SC-SM, SM	  A-2-4	0	   0	1 100	  95 <b>-</b> 100	  65-85	15-30	0-20	  NP-5
	 	12-30	Fine sand,   loamy fine   sand, sand	SP-SM, SW-SM,   SM 	A-2-4, A-3   	0   	0-2   	95-100   	90-100   	50-80   	5-30   	0-20   	NP-3   
İ	 	30-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	  95 <b>-</b> 100	85-95 	75-90 	50-75 	25-40 	5-20

Map symbol	   Pct. of	Depth	USDA texture	Classi	fication	Fragi	nents		_	e passi: umber	ng	  Liquid	   Plas-
and	map unit	İ	İ	İ		>10	3-10	i				limit	ticity
component name	j j	İ	İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
		In	I	I	1	Pct	Pct	1	I			Pct	1
			[										
I12A:			[										
Pelan	2	0-6	Sandy loam	SM, SC-SM	A-4	0	0-5					15-35	NP-10
		6-9		SP-SM, SM	A-1, A-2, A-3	0	0-2	95-100	95-100	45-75	5-30	0-20	NP-3
			sand, loamy					ļ					1
			fine sand					ļ					1
		9-14		GC, SM, GM,	A-1, A-2	0	2-5	45-85	25-50	10-45	5-35	20-30	NP-10
			sandy loam,	sc	!	!		!	!	ļ	ļ	!	!
			very gravelly		!			ļ	ļ	!	ļ	ļ	!
		İ	sandy clay									!	!
		14 20	loam  Very gravelly	lan av an	  A-1	I I 0	l l 2-5					0-20	
		14-20	sand, very	GP-GM, SP,	A-I	U	<b>2-</b> 5	130-65	15-45 	] 5-40 I	1 0-10	0-20	INP-3
			gravelly	SP-SM, GP	1	 	l I	 	l I	l i	!	1	1
			coarse sand,	I I		i i		I I	l I	i i	l I	¦	!
			very gravelly	I I		 		! !	! !		¦	1	1
	i i		loamy sand	! 	i		 	i	! !	i	i	i	i
	i i	20-60	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	l 0-5	95-100	l 85-95	  75-90	  50-75	25-40	5-20
	i			i									
Poppleton	i 1 i	0-6	Fine sand	SM, SC-SM	A-2-4	0	0	95-100	95-100	65-80	15-30	0-20	NP-5
	j j	6-9	Fine sand, sand	SM	A-2-4, A-3	0	0	100	100	80-95	5-15	0-20	NP-3
	į į	9-40	Fine sand, sand	SM	A-2-4, A-3	0	0	100	100	80-95	5-15	0-20	NP-3
		40-60	Fine sand, sand	SM	A-2-4, A-3	0	0	100	100	80-95	5-15	0-20	NP-3
			[										
I13A:													
Espelie	75   	0-9	Fine sandy loam	SC, SM, ML,	A-2-4, A-4	0 	0 	95-100 	85-100 	60-85 	30-65 	0-25	NP-10
	j j	9-24	Loamy sand,	SM, SP-SM	A-2, A-3,	0	0-5	85-100	60-100	30-80	5-40	0-20	NP-3
			loamy fine		A-1, A-2-4								
			sand, fine										
			sand										
		24-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty										
			clay loam	<u> </u>	ļ			!	!	!	!		!
Foxlake	8	0-19		CL-ML, CL	A-4, A-6	0-1		95-100					5-20
		19-38		CH	A-7	0-1	0-3	95-100	1   32-T00	190-100	75 <b>-9</b> 5	40-70	20-45
			clay, silty clay loam	l i		 		 	 	 			!
		0 40		l Ch	  A-7	   0-1	l l 0-3	   05 100	   0 = 100	   00 100	   75 05	  40-70	120 45
		30-43	clay, silty	l CH	A-/	U-T	U-3 	  95-100	  32-T00	190-100	/ 3 <b>- 3</b> 3	140-70	120-45
			clay loam	I I		i i		I I	l I	i i	l I	¦	!
		49-80		I  СН	  A-7	   0-1	l   0-3	  95-100	  95–100	90-100	  75-95	  40-70	20-45
	i i	15 00	clay, silty	I	/	0 -		1	33 ±00	1	1,2,23	1	1
		 	clay loam	! 	i			i	i	i	i	i	i
	: !	!		!	!	!	:	!	!	!	!	!	1

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	   Depth	USDA texture	Classi	fication	Fragi	ments		_	e passinumber	ng	  Liquid	   Plas-
and	map unit				1	>10	3-10					limit	ticity
component name			L	Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct					Pct	
I13A:	 			 			 	 	 	 	 		 
Hilaire	7	0-10	Fine sandy loam	SM, SC-SM	A-2-4, A-4	0	0	95-100	95-100	65-90	20-50	0-25	NP-10
		10-34	Fine sand,	SP-SM, SM	A-1, A-3,	0	0-5	85-100	75-100	45-85	5-40	0-20	NP-3
	 	[ 	loamy fine sand	 	A-2-4		 	 	 	[ [	 	 	 
	j i	34-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
	į i		clay, silty	ĺ	İ	İ	ĺ	İ	İ	ĺ	ĺ	İ	İ
	İ		clay loam	İ	į	İ		ĺ	ĺ	į		İ	ĺ
Clearwater,	 	 		 			 	 	 		 		 
depressional	5	0-8	Mucky clay loam	CL	A-6	0	0-3	95-100	95-100	80-95	60-85	25-40	10-20
		8-35	Clay, silty	CL, CH	A-7	0-1	0-1	95-100	95-100	90-100	70-95	40-70	20-45
			clay, silty										
			clay loam										
		35-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty										
	 		clay loam	 	1		 	 	 	 	 		 
Thiefriver	5	0-12	Fine sandy loam		A-4	0	0	  95-100	80-100	70-90	  35-55	0-25	  NP-10
		12.22	  Fine sandy	ML, SC-SM	  A-2-4, A-4	   0	   0	 	 	 	115 50	  20-30	   NTD 10
	 	12-23 	loam, sandy	SC-SM, SM	A-2-4, A-4	1	U	  95-T00	192-100	103-03	  13-30	120-30	INP-IO
	 	l I	loam, loamy	l I		-	l I	 		l I	 		!
			fine sand	I I			l I	 	l I	i i	l I		
	! !	   23-32	Fine sand,	SM, SP-SM	A-2-4, A-2,	1 0	l l 0-3	  90-100	I   80-100	  50-80	l   5-35	0-20	ND-3
	i	20 02	loamy fine		A-3						5 55	0 20	
	i	i	sand, loamy	i		i	İ	i	i	i	i	i	i
	j i		sand	İ	i	i	İ	i	i	i	i	i	i
	j i	32-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
	j i	İ	clay, silty	j	İ	į	İ	į	į	į	į	į	į
	j i	ĺ	clay loam	İ	İ	İ	ĺ	ĺ	ĺ	İ	ĺ	İ	ĺ
I15A:	 	 	 	 			 	 	 	 	 		 
Flaming	l 70	0-12	Loamy fine sand	lsm.sc-sm	  A-2-4	0	l I 0	100	  95-100	65-80	  15-30	0-20	NP-5
			Fine sand,	SW-SM, SM	A-2-4, A-3	0	l 0		95-100		5-30	0-20	
	i		loamy sand,	 		i -	i -						
	i	i	sand	i	i	i	İ	i	i	i	i	i	i
	i i	17-27	Fine sand,	SM, SW-SM	A-2-4, A-3	i o	0	100	95-100	50-80	5-30	0-20	NP-3
	j i	İ	loamy sand,	İ	i	i	İ	i	i	i	į	i	i
	į i		sand	İ	İ	ĺ	İ	İ	İ	İ	İ	İ	İ
	j i	27-60	Fine sand,	SM, SW-SM	A-2-4, A-3	j o	0	100	95-100	50-80	5-30	0-20	NP-3
	I i		loamy sand,	l	1		l				l		
	l i		sand		1								
	l i												

Map symbol	   Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentago sieve n	e passi: umber	ng	  Liquid	   Plas
and	map unit					>10	3-10					limit	ticity
component name				Unified	AASHTO	inches	inches	4	10	40	200		index
		In	Į.	l	ļ	Pct	Pct	l	I	l	l	Pct	[
I15A:			 	 	 			 	 	 	 		 
Garborg	   10	0_12	Loamy fine sand	l lac_aw aw	  A-2-4	l l 0	l l 0	l l 100	   05_100	  50-80	  15_25	0-20	I NP-5
Gaiborg	±0		•	SC-SM, SM,	A-2-4	1 0	l 0			50-80  50-80			NP-3
		12-41	sand, loamy sand, fine	SP-SM		0   	V   	100   	   	   	   	0-20   	   
			sand										
		41-59	Fine sand,   loamy sand,   loamy fine   sand	SM, SC-SM,   SP-SM 	A-3, A-2-4   	0   	0   	100   	95-100   	50-80   	5-35   	0-20	NP-3   
		FO 80		  SP-SM, SM,	  A-2-4	l l 0	l l 0	l l 100	   05 100	l  50-80	l   5-35	   0-20	
		39-60	loamy sand,   loamy fine   sand	SC-SM		0     	°   	100   	     	50-60     	5-35     	0-20	NP-3   
Hamar	   5	0-12	Loamy fine sand	  sc-sm, sm	  A-2-4	   0	   0	   100	  95-100	  50-80	  15-35	   0-20	  NP-5
	i i	12-17	Loamy fine	SM, SC-SM,	A-2-4	0	0	100	95-100	50-80	10-35	0-20	NP-3
			sand, loamy sand, fine sand	SP-SM 	   	i   		   	j   	   	   	i   	   
		17-40	Fine sand,   loamy sand,   loamy fine   sand	SP-SM, SC-SM,   SM 	A-2-4, A-3     	0     	0   	100     	95-100     	50-80     	5-35     	0-20	NP-3     
		40-47	Loamy fine sand	SC-SM, SM	A-2-4	0	0	100	95-100	50-80	15-35	0-20	NP-5
		47-60	Fine sand,   loamy sand,   loamy fine   sand	SP-SM, SM,   SC-SM   	A-3, A-2-4     	0     	0   	100     	95-100     	50-80     	5-35     	0-20     	NP-3     
Ulen	l 5 I	0-9	  Fine sandy loam	ן ופר פר⊾פיא פיא	   a_4	l l 0	l l 0	l l 100	   100	   80_100	  35-50	0-25	   NTD_10
oren-				SC-SM, SM     	A-2-4, A-4     	0   0   	0   0 		•	•	•	15-25     	•
		42-60	Fine sand, sand	SM, SP-SM	A-2, A-3, A-1	0	0	85-100	75-95	  45-75	5-25	0-20	NP-3
Poppleton	3	0-6	  Fine sand	  SC-SM, SM	  A-2-4	   0	   0	  95-100	I  95-100	  65-80	  15-30	0-20	  NP-5
	j	6-9	Fine sand, sand	SM	A-2-4, A-3	j 0	0	100	100	80-95	5-15	0-20	NP-3
	j	9-40	Fine sand, sand	SM	A-2-4, A-3	j 0	0	100	100	80-95	5-15	0-20	NP-3
	į i	40-60	Fine sand, sand	SM	A-2-4, A-3	j 0	0	100	100	80-95	5-15	0-20	NP-3
	į i		İ	İ	İ	İ		İ	İ	İ	İ	i	İ

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	   USDA texture	Classif 	ication 	İ	ments		rcentage sieve n	_	ng	  Liquid	
and	map unit		ļ			>10	3-10	ļ				limit	
component name			1	Unified	AASHTO		inches	4	10	40	200	L D-1	index
		In	 	 	 	Pct 	Pct	 	l I	l I	l I	Pct	l I
I15A:	i			i I	i	 	i	! 	İ	<u> </u>	 	i	i
Sandberg	3	0-12	Loamy sand	SM, SP-SM	A-1, A-2	0	0-5	85-100	50-95	40-75	10-25	0-20	NP-5
j	İ	12-19	Gravelly loamy	SM, SP-SM	A-1, A-2, A-3	0	0-5	60-95	50-95	35-70	5-25	0-20	NP-3
	l l		coarse sand,		[								
			gravelly		!	!	ļ	!	ļ	!	!	ļ	ļ
			coarse sand,			ļ	ļ	ļ	ļ	!	ļ	ļ	ļ
		10.00	loamy sand										
		19-29	Gravelly coarse   sand, coarse	SW-SM, SP-SM,   SP	A-1, A-2, A-3	0	0-5	50-95 	40-95	30-65	0-10	0-20	INP-3
			sand, coarse	DF 	 	l I	 	l I	 	 	l I		 
	i	29-80	Gravelly coarse	SP-SM, SP,	  A-1, A-2, A-3	l I 0	l 0-5	  50-95	  40-95	l   30-65	   0-10	0-20	NP-3
	i		sand, coarse	SW-SM	i	i	i	i	i	i	i	i	i
j	i		sand, sand	İ	į	İ	į	į	į	į	İ	į	į
	l				[								
Foldahl	2		Loamy fine sand		A-2-4	0	0		95-100			0-20	
		12-30	Fine sand,	SW-SM, SP-SM,	A-2-4, A-3	0	0-2	95-100	90-100	50-80	5-30	0-20	NP-3
			loamy fine	SM	1	 				 		ļ	
		30-80	sand, sand Clay loam, loam	I Іст. ст. <b>–м</b> т.	  A-6, A-4	   0-1	l   0-5	   95_100	  85-95	   75_90	  50-75	125-40	   5-20
		30-80	Cray Toam, Toam	l cu' cu-mu	A-0, A-4	U-1	0-3 	 		/3-90 	30-73 	23-40 	3-20 
Radium	2	0-14	Loamy sand	SW-SM, SM	A-2-4	0	, 0	  95-100	95-100	  50-70	5-25	0-20	NP-5
	i	14-33	Sand, loamy	SM, SP, SP-SM	A-1, A-2, A-3	0	0-5	75-100	65-95	35-60	3-15	0-20	NP-3
	I		sand, gravelly		[								
			loamy coarse										
			sand										
		33-43		SP-SM, GW-GM,	A-1	0	0-5	45-90	30-75	15-40	0-10	0-20	NP-3
			gravelly coarse sand,	GW, SP	 	 				 			
			very gravelly	 	 	l I	I I	l I	I I	l I	l I	i	l I
			coarse sand	! 	i	l I	i	! !	i	i	! !	ŀ	i
	i	43-80	!	SM, SP-SM,	A-1, A-2, A-3	0	0-5	  85-100	75-95	  40-75	5-20	0-20	NP-3
	i		sand, loamy	SW-SM	į	į	į	į	į	į	İ	į	į
			sand		1								
				<u> </u>	ļ	ļ	!	!	ļ	ļ	!	ļ	ļ
I16F:		0.16	 										
Fluvaquents	55	0-16	Fine sandy loam	CL-ML, SC-SM,	A-4 	0	0	  95-100	90-100	70-85 	40-55 	U-25	NP-10
		16-80	  Stratified		  A-1, A-3,	l l 0	l l 0	I   95-100	  70-100	I   35-95	   5-80	I I 0-40	  NP-15
	i	20 00	loamy sand to		A-4, A-6	İ					5 55	0 20	
	i		silt loam	İ	İ	İ	İ	İ	į	İ	İ	į	į
İ	ĺ				1		l			l	l		
Hapludolls	25	0-9	Loam		A-4, A-6	0			95-100				5-15
		9-60	Clay loam, silt	•	A-4, A-6	0-1	0-5	95-100	80-100	55-100	35-90	20-40	5-20
	ı <b>I</b>		loam, loam	CL-ML, SC	1	i .	i .	i .	i			1	1

Map symbol	Pct. of	Depth	USDA texture	Classif: 	ication	Fragi	ments	•	rcentage sieve n	e passin umber	_	  Liquid	   Plas-
and	map unit	_	i		<u> </u>	>10	3-10	i				limit	ticit
component name	i - i		i	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
		In	İ			Pct	Pct	i	İ	l	i i	Pct	i
	i		i			i	i	i	i	i	i	İ	i
I16F:	i i		i	i	İ	i	i	i	İ	İ	i	İ	i
Hapludalfs	7	0-6	Fine sandy loam	CL-ML, SC-SM	A-4	j o	0-3	95-100	85-100	70-85	35-55	20-30	5-10
	į į	6-8	Fine sand,	ML, SM	A-2, A-4	j 0	0-3	95-100	85-100	70-90	30-50	15-25	NP-5
	į į		loamy fine	İ	ĺ	İ	İ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ
			sand, fine										
			sandy loam										
		8-25	Loam, clay	CL	A-6	0	0-5	95-100	85-100	75-100	50-95	25-40	10-20
			loam, silty										
			clay loam										
		25-80	Fine sandy	CL, SC, CL-ML	A-4, A-6	0-1	0-5	95-100	85-100	70-100	35-90	20-35	5-15
			loam, loam,										
			silt loam				ļ						
						!	!	!	!				!
Fairdale	5				A-4, A-6	0	0	100		90-100			5-15
		7-48	Stratified very	ML, CL-ML, CL	A-4, A-6	0	0	100	100	85-100	55-90	20-40	NP-20
			fine sandy										
		İ	loam to silty		 	!							
		40 67	clay loam  Fine sandy	  CL-ML, CL	  A-4, A-6	l l 0	l l 0	   100	l l 100	  70-100			   5-15
		48-67	loam, silty	CL-ML, CL	A-4, A-6 	0	0	1 100	I I TOO	1 10-100	50-90 	20-40 	   2-T2
			clay loam,	l I	l I	-	 	l I	l I	l I	l I	l I	l I
		 	silt loam	 	l I		 	l I	l I	l I	l I	l I	l I
		67-80	Stratified very	I Іст.₌мт. ст. мт.	l la_4 a_6	l l 0	l l 0	l   100	l l 100	  85-100	  55-90	   20_40	  ND-2∩
		07-00	fine sandy	CD-MD, CD, MD	A-4, A-0 	"		±00	100 	05-100 	55-50 	20 - 10 	ME - 20 
			loam to silty	<u> </u> 	 	1	! 	! 	l İ	l I	l I	l İ	! 
	i		clay loam	i I	i I	i	i	İ	! 	i i	i i	i i	i
	i			! 	! 	i	i	İ	! 	i i	i i	i i	İ
Water	5		i			i	i	i	i	i	i	i	i
	i i		İ	İ	İ	i	i	į	į	j	į	İ	İ
Bowstring	2	0-38	Muck	PT	A-8	j 0	0	100	100	i	i	i	j
	İ	38-47	Stratified sand	SC-SM, SP-SM,	A-2	0	0	100	100	50-85	10-35	15-20	NP-5
			to fine sandy	SM									
			loam										
		47-80	Muck	PT	A-8	0	0	100	100				
Rauville	1 1		Silty clay loam	•	A-6	0	0	100		90-100	•	•	
		27-45	Silty clay	CT	A-6	0	0	100	100	90-100	85-100	25-40	10-20
			loam, silt			!	!	!	!	ļ	!	!	!
			loam										
	. !	45-60	•	ML, CL, SM	A-1, A-3,	0	0	95-100	70-100	35-95	5-80 	0-40	NP-15
			gravelly loamy	  -	A-4, A-6	1	I	I		l	l	l	I
			sand to clay	 	 		1		 	 	 	 	
			loam	 	l I		1	[ 	 	 	 	l I	l I
			I	I	I	I	I	I	I	I	I	I	I

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	i	ments		rcentag	e passi: umber	ng		   Plas-
and	map unit		!			>10	3-10	ļ				limit	ticity
component name				Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct				ļ	Pct	ļ
I17A:	 		 	 	l I	 	l I	 	 	l I	l I	 	 
Foldahl	75	0-12	Fine sandy loam	SM, SC-SM	A-2-4, A-4	i o	i I o	95-100	95-100	65-90	20-50	0-25	NP-10
	i			SM, SW-SM,	A-2-4, A-3	0				50-80		0-20	NP-3
	i i	j i	loamy fine sand, sand	SP-SM		;   	i I	i i	; [ [	i i	į į	i i	į į
		30-80	Loam, clay loam	CL-ML, CL	A-6, A-4	   0-1 	   0-5 	  95-100 	  85-95 	  75-90 	  50-75 	25-40	5-20
Kratka	10	0-11	  Fine sandy loam	SC-SM, SM	A-4	0	0	95-100	90-100	50-80	35-50	0-25	NP-10
		11-18	Loamy sand,	SM, SW-SM,	A-2-4, A-3	0	0	95-100	90-100	50-80	5-35	0-20	NP-3
		l	sand, loamy	SP-SM	ļ	[		[	[				
	!		fine sand	!				!		!		!	!
		18-25		SM, SP-SM,	A-2-4, A-2,	0	0	95-100	90-100	50-80	5-35	0-20	NP-3
			sand, fine sand	SW-SM	A-3		 						
	 	   25_80	Sand  Clay loam, loam	l lct ct_wt	  A-6, A-4	   0-1	l l 0-5	   05_100	   05_05	  75-90	   50_75	125-40	   5-20
	! !	25-00 			N-0, N-1	0-1	0-3 	JJ-100 	03-33 	/ J = J 0	50-75 	25-40	3-20
Roliss	5	0-14	Loam	CL, CL-ML	A-4, A-6	0-1	0-5	  95-100	80-100	80-100	60-90	20-40	5-20
	j i	14-20	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Flaming	   4	   0-12	Loamy fine sand	  sc-sm.sm	  A-2-4	   0	l I 0	   100	  95-100	  65-80	  15-30	   0-20	  NP-5
5	i -		Fine sand,	SW-SM, SM	A-2-4, A-3	0	l 0	100	95-100	•	5-30	0-20	
	i i	İ	loamy sand,	 		i i	i i	į	į į				İ
	i i	17-27		SM, SW-SM	A-2-4, A-3	0	0	100	95-100	50-80	5-30	0-20	NP-3
	 	İ	loamy sand,	  -		į	i i	į	į	į	į	į	į
	i	l 27-60	Fine sand,	SW-SM, SM	A-2-4, A-3	0	l I 0	100	  95-100	  50-80	5-30	0-20	NP-3
	j i		loamy sand,	İ	İ	i	İ	i	i	i	i	i	i
	į į	İ	sand	į	į	į	į	į	į	į	į	į	į
Grimstad	   2	   0-9	  Fine sandy loam	  sc-sm.sm	  A-2-4, A-4	   0	   0	  95-100	  95-100	  65-90	  20-50	   0-30	  NP-10
GI IMB CAA	I		Loamy sand,	SM, SC-SM	A-2-4, A-4	1 0	l 0	•	•	•	•	15-25	
	i		loamy fine			i	i						
	j i		sand, fine	İ	İ	i	İ	i	i	i	i	i	i
	j i	İ	sand	İ	İ	į	j	į	į	İ	İ	İ	į
	l	22-28	Loamy sand,	SM, SW-SM	A-2, A-2-4,	0	0	100	95-100	80-90	5-35	0-20	NP-3
			loamy fine		A-3								
	! !		sand, fine	!	!			!				!	!
			sand										
	 	28-60 	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1 	0-5 	  95-100	85-95 	75-90 	50-75 	∠5-40 	5-20 
		1	1	1	1	1	ı	1	1	I	I	1	1

Map symbol	Pct. of	Depth	   USDA texture	Classif	ication	Fragi	ments	•	rcentag sieve n	_	_	  Liquid	   Plas
and	map unit					>10	3-10	l				limit	ticity
component name				Unified	AASHTO	inches	inches	4	10	40	200		index
		In			ļ	Pct	Pct					Pct	
I17A:	 			 	] 	 	 	 	 	 	İ	i	 
Linveldt	2	0-9	Fine sandy loam	SM, SC-SM	A-2-4, A-4	0	0-5	95-100	95-100	65-90	20-50	0-25	NP-10
		9-16	Sandy clay	CL, SC,	A-2-4, A-4	0-1	0-5	95-100	80-100	50-90	25-75	20-30	5-10
	 		loam, loam,   sandy loam	CL-ML, SC-SM 	 	 	 	 	 	 	 	 	 
	j i	16-29	Loamy sand,	SP-SM, SC-SM,	A-1, A-2, A-3	0-1	0-5	65-100	55-100	30-80	5-30	0-20	NP-3
	 		sand, coarse sand	sm 	[ [	 	 	 	 	 	 	 	 
	j i	29-45	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		45-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5 	95-100	85 <b>-</b> 95	75-90 	50-75 	25-40	5-20
Eckvoll	1 1	0-9	Loamy fine sand	SC-SM, SM	A-2	0-1	0-2	90-100				0-20	NP-5
		9-25	•	SM, SP-SM	A-1, A-2, A-3	0	0-2	95-100	95-100	45-75	5-30	0-20	NP-3
	 		sand, loamy   fine sand	 	 	 	 	 	 	 	 		 
	! !	25-32		CL, SC	A-6	0	0-5	90-100	75-100	60-95	45-75	25-40	10-20
	 		sandy clay loam	 	I I	 	l I	 	 	l I			l i
		32-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Strathcona	   1	0-10	  Fine sandy loam	  ML, SM,	  A-4	   0	   0	  95 <b>-</b> 100	  90-100	  70-85	  40-55	0-25	  NP-10
	!			CL-ML, SC-SM	•					!	!	!	
	 	10-17   	Fine sandy   loam, sandy   loam, loamy	SM, SC-SM   	A-2-4, A-4   	0   	0   	95-100   	95-100   	65-85   	15-50   	20-30   	NP-10   
	<b>I</b> 1		fine sand		[								
	 	17-28	sand, loamy	SP-SM, SM	A-2-4, A-3,   A-2	0 	0-1 	95-100 	85-100 	60-80 	3-30	0-20	NP-3 
			fine sand										
	 	28-80 	Clay loam, loam	CL, CL-ML	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75	25-40	5-20 
I18A:	į <u> </u>			<u> </u>	į.		į	į	<u> </u>	į	į.	į	į
Foldahl	75		Loamy fine sand		A-2-4  A-2-4, A-3	0   0	0   0-2					0-20	
	   	12-30	Fine sand,   loamy fine   sand, sand	SM, SW-SM,   SP-SM	A-2-4, A-3   	0	0-2   	   	   	50-80	5-30	0-20	NP-3 
		30-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Kratka	   10	0-11	  Fine sandy loam	  sm.sc-sm	  A-4	   0	   0	  95-100	  90-100	  50-80	  35-50	   0-25	  NP-10
12 4014			Loamy sand, sand, loamy	SP-SM, SW-SM,   SM	1	0	0   0				5-35		NP-3
	 	18-25	fine sand  Loamy sand,   sand, fine		  A-2, A-3,   A-2-4	   0 	   0 	  95-100 	  90-100 	  50-80 	   5-35 	   0-20 	  NP-3 
	j i		sand	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
		25-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	1		1	I	I	1	I	1	1	1	1	1	I

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

				Classi	fication	Fragi	nents	•	rcentage	_	ng		I
Map symbol	Pct. of	Depth	USDA texture	ļ		ļ			sieve n	umber		Liquid	
and	map unit					>10	3-10					limit	
component name			1	Unified	AASHTO		inches	4	10	40	200	<u> </u>	index
		In	 	 	l I	Pct	Pct			 		Pct	
I18A:			I I	l I		l I	 	 	 	 	 		 
Roliss	l 5	0-14	Loam	CL, CL-ML	A-4, A-6	0-1	l   0-5	  95-100	80-100	  80-100	60-90	20-40	5-20
	į		Clay loam, loam	CL, CL-ML	A-6, A-4	0-1			85-95				5-20
		20-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Flaming	   4	   0_12	Loamy fine sand	lew ec-ew	  A-2-4	   0	   0	   100	  95-100	  65-80	115-30	   0-20	  MD_5
riaming	] <del>-</del>		Fine sand,	SM, SW-SM	A-2-4, A-3	l 0	l 0		95-100		5-30		NP-3
	   	12 17	loamy sand,			°   	°   			   	3 30	0 20	
		17-27	Fine sand,	SM, SW-SM	A-2-4, A-3	0	0	100	95-100	50-80	5-30	0-20	NP-3
	i I	i I	loamy sand,		İ	 	i I	j I	j I	i I	j I	j I	į I
	į	27-60	Fine sand,   loamy sand,	SW-SM, SM	A-2-4, A-3	0	0	100	95-100	50-80	5-30	0-20	NP-3
	   	   	sand	   		   	   	   	   	   	   	   	   
Grimstad	2	0-9	Fine sandy loam	SC-SM, SM	A-2-4, A-4	0	0	  95-100	95-100	  65-90	20-50	0-30	  NP-10
	j i	9-22	Loamy sand,	SC-SM, SM	A-2-4, A-4	0	0	100	95-100	65-85	15-50	15-25	NP-10
	 	 	loamy fine   sand, fine   sand	   		   	   	   	   	   	   	   	   
	 	22-28		SM, SW-SM	A-2, A-2-4,	0	0	100	95-100	  80-90	5-35	0-20	  NP-3
	j i	İ	loamy fine	İ	A-3	İ	İ	İ	İ	į	İ	İ	İ
	   	i i	sand, fine sand	   		l I	i	İ	İ	İ	İ	İ I	İ
		28-60	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	  95-100	  85-95	75-90	  50-75	25-40	5-20
Linveldt	l 2	   0-9	  Fine sandy loam	I  SC-SM, SM	A-2-4, A-4	I I 0	I   0-5	  95-100	  95-100	I  65-90	  20-50	0-25	  NP-10
	i		Sandy clay	SC, SC-SM,	A-2-4, A-4	0-1						20-30	
	j I	j I	loam, loam,	CL, CL-ML	į į	 	i I	i I	i I	j I	i I	j I	i I
	 	16-29 	Loamy sand, sand, sand, coarse sand	SP-SM, SM,   SC-SM	A-1, A-2, A-3 	0-1   	0-5   	65-100   	55-100   	30-80   	5-30   	0-20   	NP-3   
		29-45	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	   0-5	  95-100	85-95	  75-90	50-75	25-40	5-20
			Clay loam, loam	•	A-6, A-4	0-1			85-95				5-20
Eckvoll	   1	   0-9	Loamy fine sand	  SM, SC-SM	  A-2-4	   0-1	   0-2	  90-100	  85-100	  65-80	  15-30	   0-20	  NP-5
	j			SP-SM, SM	A-1, A-2-4,	0			95-100		5-30	0-20	
	i I i	j I	sand, loamy	 	A-3	 	 	 	 	i I	 	į I	i I
	 	25-32		SC, CL	A-6 	   0 	   0-5 	90-100 	75-100 	60-95 	45-75 	  25-40 	10-20 
		İ	loam, loam	İ	İ	İ	İ	İ	į	İ	į	İ	İ
	l i	32-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	l i												[

Map symbol   and	Pct. of   map unit	Depth	USDA texture	Classif	ication  	Fragn _    >10	ments 		rcentage sieve n	_	_	  Liquid  limit	
component name			i	Unified	AASHTO	inches		4	10	40	200		index
		In		   	   	Pct	Pct	   	   	   	İ	Pct	
I18A:			İ	 	l I		l	! 	! 	! 	i	i	
Strathcona	1 j	0-10	Fine sandy loam	ML, CL-ML,	  A-4 	j o I	0	95-100 	90-100 	70-85 	40-55 	0-25	  NP-10 
   		10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0   	95-100     	95-100     	65-85     	15-50     	20-30   	NP-10     
i !	İ	17-28	Sand, fine   sand, loamy   fine sand		A-2, A-3,   A-2-4 	0   	0-1	95-100   	  85-100   	  60-80 	3-30 	0-20	NP-3   
į		28-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
I19A:			I I	 	 			 	 	 			 
Foxhome	65	0-10	Sandy loam	SM	A-4	j 0	0-2	  95-100	90-100	75-90	35-50	0-25	  NP-10
 		10-15	Fine sand,   loamy sand,   sand	sm, sw-sm   	A-2, A-3   	0   	0-3   	75-95   	65-90   	45-80   	5-35   	0-25   	NP-5   
 		15-23	Very gravelly   sand, very   gravelly   coarse sand,   very gravelly   loamy sand	SP-SM, SP,   GP-GM, GP       	A-1         	0       	2-5   	30-65         	15-45           	5-40         	0-10         	0-20       	NP-1         
į	į	23-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95 	75-90	50-75	25-40	5-20
Kittson	10	0-10	Loam	CL, CL-ML	  A-4, A-6	0	0	1 100	  95-100	  85-95	  50-75	20-35	   5-15
 		10-17	Loam, fine sandy loam, sandy loam	SC, CL   	A-4   	0   	0-5 	90-100   	65-100   	55-90   	35-75 	20-35	5-10   
į	i	17-36	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	  85-95	75-90	50-75	25-40	5-20
İ	Ì	36-60	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5 I	95 <b>-</b> 100	85 <b>-</b> 95	75-90 	50 <b>-</b> 75	25-40 	5-20 
Strandquist	10	0-10	Loam	CL, CL-ML	  A-4	0	0	  95 <b>-1</b> 00	80-100	  75-90	50-75	20-30	5-10
     		10-20	Gravelly sand,   gravelly   coarse sand,   very gravelly	GW-GM, SP-SM, SP, GP-GM, GP	A-1     	0	2-5   	30-65     	15-45     	5-40     	0-10	0-20	NP-3   
I			sand Clay loam, loam		  A-6, A-4	   0-1		l		l		  25-40	   5-20

A-2-4, A-4

A-2-4, A-3

A-6, A-4

0

0

0

|95-100|95-100|65-90 |20-50 | 0-25 |NP-10

| 0-2 | 95-100 | 90-100 | 50-80 | 5-30 | 0-20 | NP-3

0-1 | 0-5 | 95-100 | 85-95 | 75-90 | 50-75 | 25-40 | 5-20

Foldahl-----

5

0-12 | Fine sandy loam | SC-SM, SM

SM, SP-SM,

SW-SM

12-30 |Fine sand,

loamy fine

sand, sand | 30-80 | Loam, clay loam | CL, CL-ML

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classi	fication	Frag	ments	•	rcentage	_	ng	  Liquid	   Plas-
and	map unit	_			1	>10	3-10	i				limit	
component name			i	Unified	AASHTO		inches	4	10	l 40	l 200		index
		In	İ			Pct	Pct	<u>                                     </u>	<u> </u>	<u> </u>		Pct	
I19A:	 		 	 		1	 	 	 	 	 	 	 
Grimstad	5	0-9	Fine sandy loam	SC-SM, SM	A-2-4, A-4	į o	j 0	95-100	95-100	65-90	20-50	0-30	NP-10
		9-22	Loamy sand,   loamy fine   sand, fine   sand	SC-SM, SM	A-2-4, A-4	0     	0     	100     	  95-100     	  65-85     	  15-50     	15-25     	  NP-10     
			loamy fine sand, fine sand	sw-sm, sm     	A-2, A-2-4,   A-3 	0     	0     	   	95-100     	   	   	0-20     	NP-3     
	 	28-60	Clay loam, loam	CL-ML, CL 	A-4, A-6 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Roliss	3	0-14	Loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	80-100	80-100	60-90	20-40	5-20
		14-20	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85 <b>-</b> 95	75 <b>-</b> 90	50 <b>-</b> 75	25-40	5-20
Mavie	2	0-12	  Fine sandy loam	SM, SC-SM	  A-4	0	0-3	  95-100	  90-100	  50-80	  35-50	0-25	  NP-10
		12-18		SM, CL-ML,   SC-SM, SC 	A-4, A-6   	0   	0-5   	95-100   	85-100   	65-95   	15-75   	20-35   	NP-15   
		18-39	Very gravelly   coarse sand,   very gravelly   sand, very   gravelly loamy   sand	SP, SP-SM	A-1       	0       	2-5         	30-65         	15-45         	5-40       	0-10         	0-20         	NP-3       
     120A:		39-80	Clay loam, loam	CL-ML, CL 	A-6, A-4 	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Foxlake	75	0-19	Loam	  CL-ML, CL	A-4, A-6	0-1	0-2	  95-100	  90-100	  75-90	  50-80	20-40	   5-20
		19-38	Silty clay,   clay, silty   clay loam	СH   	A-7   	0-1	0-3	95-100   	95-100   	90-100   	75-95   	40-70 	20-45   
	 	38-49	Silty clay,   clay, silty   clay loam	Сн   	A-7   	0-1   	0-3   	95-100   	95-100   	90-100   	75-95   	40-70   	20-45   
		49-80	Silty clay,   clay, silty   clay loam	CH   	A-7   	0-1	0-3   	95-100   	95-100   	90-100   	75-95   	40-70   	20-45   

Map symbol	Pct. of	   Depth	USDA texture	 	Classif	ication	Fragi		•	rcentage sieve n	_	ng	  Liquid	   Plas-
and component name	map unit	 		ļ .	Unified	AASHTO	>10  inches	3-10	   4	1 10	l 40	I 200	limit	ticity  index
сопроленс наше		In	<u> </u>	<u> </u>	onilled	AASHIO	Pct	Pct	<u> </u>	10	=0	200	Pct	Index
I20A:			 	 					 	 	 	 	 	 
Clearwater	5	0-8	Clay	CL,	CH	A-7	0-1	0-1	95-100	95-100	90-100	70-95	45-70	20-50
		8-35 	Clay, silty   clay, silty   clay loam	CH,   	CL	A-7 	0-1   	0-3 	  95-100   	  95-100   	  90-100   	70-95   	40-70   	20-45   
		35-80   	Silty clay,   clay, silty   clay loam 	CH   		A-7     	0-1   	0-3   	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     
Foxlake, very					GT 167		   1-3							   5-20
cobbly	5   	0-19   19-38 	Loam   Silty clay,   clay, silty   clay loam	CL,  CH 	CL-ML	A-4, A-6  A-7 	1-3   0-1 				•		20-40  40-70 	
		j 	clay, silty clay loam	Сн   		A-7 	0-1   	0-3 	95-100   	95-100   	  90-100   	75-95     	40-70   	  20-45   
		49-80   	Silty clay,   clay, silty   clay loam 	CH   		A-7   	0-1   	0-3   	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     
Augsburg	3	0-11	Loam	ML		A-4	0	0	100	100	95-100	70-95	20-40	NP-10
		11-18   	Loam, very fine sandy loam, silt loam	мц,   	CL-ML	A-4 	0   	0   	100   	   100   	  95-100   	80-90   	0-30   	  NP-10   
		18-33     	Loamy very fine   sand, very   fine sandy   loam, loam,   very fine sand	     	CL-ML	A-4     	0     	0     	100       	100       	95-100       	75-90       	0-30       	NP-10       
		33-60	Silty clay,   clay, silty   clay loam 	CH     		A-7   	0-1   	0-3   	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     
Clearwater,	3								 	 				
depressional	3   		Mucky clay loam  Clay, silty   clay, silty   clay loam	CH,   	CL	A-6  A-7 	0   0-1 						25-40  40-70   	
		35-80   	Silty clay,   clay, silty   clay loam 	CH   		A-7   	0-1   	0-3   	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Frag	ments		rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit		İ	İ	l	>10	3-10	i				limit	ticity
component name			<u></u>	Unified	AASHTO	inches	inches	4	10	40	200		index
		In	[			Pct	Pct					Pct	
			!	<u> </u>	!	ļ	ļ	ļ	!	!	!	ļ	ļ
I20A:													
Espelie	3	0-9	Fine sandy loam	SM, SC, ML,	A-2-4, A-4	0	0	95-100	1  85-100	60-85 	9-65 	0-25 	NP-10
		9-24	Loamy sand,		  A-2, A-3,	l l 0	l   0-5	  85-100	  60-100	I   30-80	   5-40	0-20	I INP-3
			loamy fine   sand, fine   sand	   	A-1, A-2-4			   	   	   			
		24-80		I IСн	  A-7	   0-1	l l 0-3	   05_100	   95_100	   90_100	  75-95	  40-70	   20_45
		24-00	clay, silty	I	A- /	0-1	0-3 	J J – I 00	55-±00 	30-100 	75-55 	<del>1</del> 0-70	20-15
	İ		clay loam	İ	İ	i	i	i	i	į	į	i	j
			I	ļ	[	1			[		[	ļ	l
Hilaire	2		Fine sandy loam		A-2-4, A-4	0		95-100				•	NP-10
		10-34	Loamy sand, fine sand,	SP-SM, SM	A-1, A-2-4,   A-3	0	0-5	85-100	75-100	45-85 	5-40	0-20	NP-3
			loamy fine	 	A-3 	1		 	l I	 	 		l I
			sand, sand	İ	i		i	i	i	i	i	i	i
	j	34-80	•	Сн	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
	İ		clay, silty	ĺ	ĺ	j	İ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ
			clay loam	<u> </u>	!	ļ	!	!	!	ļ	!	ļ.	ļ
Reis	   2	0-9	  Clay	CH, CL	  A-7	   0-1	   0-1	   05_100	   05_100	   00_100	   70_95	  45-70	  20-50
Keis	4				A-7	0-1						45-75	
			clay			-	i						
	j i	17-33	Clay, silty	CL, CH	A-7	0-1	0-3	95-100	95-100	90-100	70-95	45-75	20-50
			clay						I				
		33-42		CH, CL	A-7	0-1	0-3	95-100	95-100	90-100	70-95	45-75	20-50
		12 60	clay  Silty clay,	  CH	  A-7	   0-1	   0-3	   05 100	   05 100	   00 100	   75 05	  40-70	
		42-60	clay, silty	l I	A- /	1 0-1	U-3	 	   95-100	   30-100	/3 <b>-3</b> 5 	40-70	20 <b>-</b> 45 
			clay loam	İ	i	i	i	i	i	i	i	i	i
	j	60-80		Сн	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty										
			clay loam			ļ	ļ					ļ	
Wheatville	   2		  Very fine sandy	lar ar wr wr		   0	   0	   100	   100	   00 100	 	  15-35	INTO 10
wileacville	2	0-9	loam	CL, CL-ML, ML	A-4	1	"	100 	100 	   30-100	50 <b>-</b> 95 	1 1 2 - 3 2	NP-10
		9-31	Silt loam, very	  CL, ML, CL-ML	  A-4	0	0	1 100	1 100	  90-100	  85-95	0-30	  NP-10
	j		fine sandy	İ	j	İ	İ	į	į	į	İ	į	į
			loam, loam										
		31-80		СН	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty							ļ		1	ļ
			clay loam	 	 	1	 	 	 	l I	 	1	 
			I	I	I	1	I	I	I	I	I	I	I

Map symbol	Pct. of	Depth	USDA texture	Classifi	ication	Fragi		•	centage sieve n	e passin umber	ng	  Liquid	•
and	map unit					>10	3-10					limit	
component name				Unified	AASHTO		inches	4	10	40	200	<u> </u>	index
		In	 			Pct	Pct	 			 	Pct	
I22A:			 	 	Ī		! 	 	l I		l İ	i	
Glyndon	75	0-11	Loam	ML	A-4	0	0	100	100	95-100	70-95	20-40	NP-10
	i i	11-28	Silt loam, very	CL-ML, ML	A-4	0	0	100	100	90-100	85-95	0-30	NP-10
	į į		fine sandy	ĺ		İ	ĺ	ĺ			ĺ	İ	İ
			loam, loam										
		28-60	Loamy very fine	CL-ML, ML, SM	A-4	0	0	100	100	85-100	45-90	0-30	NP-10
			sand, very										
			fine sand,										
			very fine										
			sandy loam										
Borup	10	0-12	Loam	  ML	  A-4	   0	l   0	   100	   100	  95-100	  70-95	  20-40	  NP-10
_	i i	12-34	Very fine sandy	CL-ML, ML	A-4	0	0	100	100	90-100	50-95	0-30	NP-10
	į į		loam, silt	j		į	İ	į	İ	İ	İ	İ	İ
	į į		loam, loamy	ĺ		İ	ĺ	ĺ			ĺ	İ	İ
			very fine sand										
		34-60	Loamy very fine	ML, CL-ML	A-4	0	0	100	100	85-100	35-90	0-30	NP-10
			sand, very										
			fine sand,										
			very fine			ļ						!	!
			sandy loam	 			 	 			 		
Augsburg	5	0-11	  Loam	  ML	A-4	0	0	100	100	  95-100	  70-95	20-40	NP-10
	į į	11-18	Loam, very fine	CL-ML, ML	A-4	0	0	100	100	95-100	80-90	0-30	NP-10
			sandy loam,										
			silt loam										
		18-33	Loamy very fine	ML, CL-ML	A-4	0	0	100	100	95-100	75-90	0-30	NP-10
			sand, very										
			fine sandy				!	!			!	ļ.	!
			loam, loam,								ļ	ļ	ļ
		22.60	very fine sand	•								140 50	
		33-60	Silty clay,   clay, silty	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95 	40-70	20-45
			clay, sifty	! !		l i	l I	 			l I		
			Clay loam	 			l İ	 			l I	l I	1
Ulen	5	0-9	Fine sandy loam	SM, SC-SM, SC	A-4	0	0	100	100	80-100	35-50	0-25	  NP-10
		9-42		SC-SM, SM	A-2-4, A-4	0	0	95-100	95-100	65-85	15-50	15-25	NP-10
			loam, sandy										
			loam, loamy										
			fine sand								l		1
		42-60	Fine sand, sand	SP-SM, SM	A-2, A-3, A-1	0	0	85-100	75-95	45-75	5-25	0-20	NP-3

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

  Map symbol	Pct. of	Depth	   USDA texture	Classif	ication	Fragi	ments		rcentage sieve nu	_	ng	  Liquid	   Plas
and   component name	map unit		İ	Unified	   AASHTO	>10  inches	3-10	İ I 4	10	40	200	limit	ticity  index
		In				Pct	Pct	<u> </u>				Pct	
I22A:				 	 		 	 			l I		
Wheatville	3	0-9	Very fine sandy   loam	ML, CL-ML, CL	  A-4 	0	   0 	100   100	100	90-100	  50-95 	  15-35 	NP-10
   		9-31	Silt loam, very   fine sandy   loam, loam	ML, CL-ML, CL   	A-4   	0   	0   	100   	100   	90-100	  85-95   	0-30	NP-10   
i !		31-80	Silty clay,   clay, silty   clay loam	СH   	A-7   	0-1   	0-3   	  95-100   	95-100	90-100	75-95     	40-70   	20-45   
 	   2	0-12	Loamy fine sand	l  sc-sm.sm	  A-2-4	I 0	l l 0	   100	  95-100	65-80	  15-30	l l 0-20	  NP-5
 				sm, sw-sm 	  A-2-4, A-3   	0	0   		95-100 		5-30 	0-20	NP-3 
 		17-27	Fine sand,   loamy sand,   sand	SM, SW-SM	A-2-4, A-3   	0   	0   	100   	95-100   	50-80	5-30   	0-20	NP-3 
 		27-60	Fine sand,   loamy sand,   sand	SW-SM, SM   	A-2-4, A-3   	0   	0   	100   	95-100   	50-80	5-30   	0-20   	NP-3   
124A:				 	! 		 	i			 	i	İ
Grimstad	70	0-9	Fine sandy loam		A-2-4, A-4	0					•	0-30	
   		9-22   	Loamy sand,   loamy fine   sand, fine   sand	SC-SM, SM     	A-2-4, A-4     	0   	0     	100     	95-100     	65-85	15-50     	15-25     	NP-10     
   		22-28	Loamy sand,   loamy fine   sand, fine   sand	SM, SW-SM	A-2, A-2-4,   A-3 	0     	0     	100     	95-100   	80-90	5-35       	0-20     	NP-3     
ļ		28-60	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5 I	95-100	85-95 	75-90	50 <b>-</b> 75	25-40	5-20
Strathcona	12	0-10	  Fine sandy loam 	CL-ML, ML, SM, SC-SM	  A-4 	0	   0 	  95-100 	  90-100 	70-85	  40-55 	0-25	  NP-10 
     		10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	SC-SM, SM	A-2-4, A-4     	0   	0   	95-100     	95-100     	65-85	15-50     	20-30	NP-10     
   		17-28	Sand, fine   sand, loamy   fine sand	SP-SM, SM	A-2, A-3,   A-2-4 	0   	0-1   	95-100   	90-100   	50-80	5-30   	0-20	NP-3 
i	i	28-80	Clay loam, loam	Іст. ст.–мт.	A-6, A-4	0-1	l 0-5	95-100	85-95	75-90	50-75	25-40	5-20

Map symbol	   Pct. of	Depth	USDA texture	Classif	ication	Frag	ments	•	rcentage sieve n	_	_	  Liquid	   Plas-
and	map unit					>10	3-10	l				limit	
component name			<u> </u>	Unified	AASHTO	inches	inches	4	10	40	200		index
		In	Į.		[	Pct	Pct	l				Pct	
								ļ			ļ	ļ	ļ
124A:													
Foldahl	5		Fine sandy loam		A-2-4, A-4	0   0		95-100			•		NP-10  NP-3
	   	12-30	Fine sand,   loamy fine   sand, sand	SW-SM, SP-SM,   SM 	A-2-4, A-3   	<sup>0</sup>   	0-2   	95-100   	   	50-80   	5-30   	0-20	NP-3   
	   	30-80	Clay loam, loam	CL-ML, CL	  A-6, A-4 	   0-1 	   0-5 	  95-100 	  85-95 	  75-90 	  50-75 	25-40	5-20
Hamerly	5	0-8	Loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	90-100	80-95	60-90	20-40	5-20
		8-25	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		25-60	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Foxhome	2		Sandy loam		A-4	0		95-100	•		•		NP-10
	   	10-15	Fine sand,   loamy fine   sand, sand	SM, SW-SM   	A-2-4, A-3   	0   	0-3   	75-95   	65-90   	45-80   	5-35   	0-25	NP-5   
		15-23	!	  GP, GP-GM,   SP, SP-SM     	  a-1       	0       	   2-5       	  30-65       	  15-45       	5-40         	0-10	0-20       	  NP-1       
	i I	23-80	Clay loam, loam	CL-ML, CL	  A-6, A-4 	0-1	0-5 	95-100	85-95	75-90 	  50-75 	  25-40 	5-20
Karlsruhe	2	0-15	Sandy loam	SC-SM, SC, SM	A-4, A-2	0	0-3	95-100	85-100	55-90	15-50	0-25	NP-10
	 	15-30	Sandy loam,   loamy sand	SC, SC-SM, SM	A-2, A-4, A-1 	0 	0-3 	95-100 	85-100 	45-75 	10-40 	0-25	NP-10 
		30-60	Coarse sand,   gravelly   coarse sand,   gravelly sand	SM, SP,   GP-GM,   SP-SM, GP 	A-1, A-2, A-3     	0     	0-5     	45-90     	30-80     	20-70     	0-15     	0-20     	NP-1     
Mavie	   2	0-12	  Fine sandy loam	l Isc-sm. sm	  A-4	l l 0	l l 0-3	  95-100	l l 90-100	l   50-80	  35-50	   0-25	  NP-10
1.2.20			Loam, fine   sandy loam,   sandy loam	SM, CL-ML,	A-4, A-6   	0   0 						20-35	
		18-39		SP, SP-SM,   GP, GP-GM     	A-1         	0         	2-5         	  30-65       	  15-45       	5-40         	0-10	0-20         	NP-3         
	j	39-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	j i		İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentage sieve n		ng	  Liquid	   Plas-
and	map unit	i	į	İ	I	>10	3-10	i				limit	ticity
component name	į į	İ	İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
		In		   	   	Pct	Pct	   	l I	   	İ	Pct	   
I24A:	j	i	İ	İ	İ	i	i	i	i	j	i	i	i
Ulen	2	0-9	Fine sandy loam	SC-SM, SC, SM	A-4	0	0	100	100	80-100	35-50	0-25	NP-10
		9-42   	Fine sandy   loam, sandy   loam, loamy   fine sand	SC-SM, SM     	A-2-4, A-4     	0     	0     	95-100     	95-100     	65-85     	15-50     	15-25     	NP-10     
	 	42-60 	Fine sand, sand	SP-SM, SM	A-1, A-2, A-3 	0 	0 	85 <b>-</b> 100 	75-95 	45-75 	5 <b>-</b> 25 	0-20	NP-3 
I25A:	j i	İ	İ	İ	İ	İ	į	į	İ	į	į	į	į
Hamar	75	0-12	Loamy fine sand	SC-SM, SM	A-2-4	0	0	100	95-100	50-80	15-35	0-20	NP-5
		12-17   	Loamy fine   sand, loamy   sand, fine   sand	SP-SM, SC-SM,   SM   	A-2-4     	0     	0     	100     	95-100     	50-80     	10-35     	0-20     	NP-3     
		17-40   	Fine sand,   loamy sand,   loamy fine   sand	SM, SP-SM,   SC-SM   	A-2-4, A-3     	0     	0     	100     	95-100     	50-80     	5-35     	0-20     	NP-3     
	İ	40-47	Loamy fine sand	SC-SM, SM	A-2-4	0	0	100	95-100	50-80	15-35	0-20	NP-5
		47-60   	Fine sand,   loamy sand,   loamy fine   sand	SM, SC-SM,   SP-SM 	A-3, A-2-4     	0     	0     	100     	95-100     	50-80     	5-35     	0-20     	NP-3   
Garborg	   10	   0-12	Loamy fine sand	  sm.sc-sm	  A-2-4	   0	   0	   100	  95-100	  50-80	  15-35	   0-20	  NP-5
G012019			Loamy fine   sand, loamy   sand, fine   sand	SC-SM, SP-SM,   SM 		0   0   	0   0   		95-100  95-100   				
		41-59 	Fine sand,   loamy sand,   loamy fine   sand	SC-SM, SM, SP-SM	A-3, A-2-4     	0     	0     	100     	  95-100     	  50-80     	5-35     	0-20     	NP-3     
		59-80   	Fine sand,   loamy sand,   loamy fine   sand	SC-SM, SM, SP-SM	<b>A-2-4</b>       	0       	0       	100       	  95-100     	50-80       	5-35       	0-20       	NP-3       
Rosewood	7	0-8	  Fine sandy loam	SC-SM, SM, SC	A-2-4, A-4	0	0	95-100	95-100	65-90	30-50	0-25	  NP-10
		8-18 	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM	A-2-4, A-4   	0     	0     	  95-100     	  95-100     	  65-85     	  15-50     	20-30     	NP-10     
		18-80	Fine sand, sand	  SM, SP-SM   	A-1, A-2-4,   A-3	   0 	0 	  85-100   	75-100   	45-75   	5-35   	0-20	NP-3   

Map symbol	   Pct. of	Depth	   USDA texture	Classi	fication	Frag	ments		rcentag sieve n	_	_	  Liquid	   Plas-
and	map unit		ļ			>10	3-10					limit	
component name	<u>                                       </u>	In	I	Unified	AASHTO	inches   Pct	inches   Pct	<u>4</u> 	10 I	40 	200	Pct	index
	i i			İ	i			i	i	i			i
I25A:			ļ	[	ļ	[				[	1		
Venlo	3		Fine sandy loam		A-2-4, A-4	0   0	0   0		95-100		•	0-25	
	 	13-60	Fine sand,   loamy sand,   loamy fine   sand	SP-SM, SM,   SC-SM   	A-3, A-2-4     	0     	0     	100       	95-100       	50-80     	5-35       	0-20	NP-3     
Flaming	2	0-12	Loamy fine sand	SC-SM, SM	A-2-4	0	0	100	  95-100	  65-80	15-30	0-20	  NP-5
	 	12-17	Fine sand,   loamy sand,   sand	sm, sw-sm 	A-2-4, A-3 	0 	0 	100   	95-100   	50-80     	5-30	0-20	NP-3   
	 	17-27	Fine sand,   loamy sand,   sand	  SW-SM, SM   	A-2-4, A-3 	   0 	   0 	   100   	  95-100   	  50-80   	5-30   	0-20	  NP-3 
	 	27-60	Fine sand,   loamy sand,   sand	SW-SM, SM     	A-2-4, A-3   	0     	0     	100     	  95-100   	50-80     	5-30   	0-20	NP-3   
Hangaard	2	0-10	Sandy loam	  SM	A-2-4, A-4	0	0-3	  95-100	  80-100	  50-75	1 15-45	0-25	  NP-10
	 	10-15	Loamy sand, coarse sandy loam, loamy coarse sand	SP-SM, SM     	A-1, A-2-4,   A-3 	0     	0-3     	95-100     	80-95     	40-70     	5-25   	0-20	NP-5     
	 	15-80	Gravelly coarse sand, gravelly sand, coarse sand		A-1, A-2, A-3	0     	0-3     	  70-95     	  55-90     	  30-60     	0-10	0-20	NP-3     
Kratka		0-11	  Fine sandy loam	  SC-SM, SM	  A-4	I I 0	l l 0	  95-100	I  90-100	  50-80	  35-50	   0-25	  NP-10
	 		Loamy sand, sand, loamy fine sand	SW-SM, SM,	A-2-4, A-3 	0 	0 	  95-100   	  90-100   	  50-80   	5-35	0-20	NP-3   
	 	18-25	•	SM, SP-SM, SW-SM	A-2-4, A-2,   A-3	   0 	   0 	  95-100   	  90-100   	  50-80 	5-35	0-20	NP-3 
	   	25-80	Clay loam, loam	CL-ML, CL	A-6, A-4	   0-1 	0-5 	  95-100 	  85-95 	  75-90 	  50-75 	25-40	   5-20 
I26A:			İ	ļ.	İ	ļ.	ļ	!	!	ļ.	İ		ļ
Hamerly	75   	0-8 8-25	Loam  Loam, clay loam	CL, CL-ML	A-4, A-6  A-4, A-6	0-1   0-1	•	95-100  95-100			•	20-40	5-20   5-20
			Loam, clay loam		A-4, A-6 A-6, A-4	0-1					50-75		5-20
Vallers	   12	0-12	Loam	CL-ML, CL	  A-4	   0-1	   0-2	  95-100	  90-100	  80-90	  50-80	  20-40	   5-20
	,   		Loam, clay loam		A-4, A-6	0-1		95-100				25-40	5-20
	i I i		Clay loam, loam		A-6, A-4	0-1	•	95-100 		•	•	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentage	_	ng	  Liquid	   Plas-
and	map unit				Ī	>10	3-10	i					ticity
component name	i i		İ	Unified	AASHTO	inches	inches	4	10	40	200	i	index
		In				Pct	Pct	[				Pct	
126A:	 				 		! 	 	 	i İ			 
Foxhome	3		Sandy loam	1	A-4	0	•	•	90-100		•		NP-10
	 	10-15	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2, A-3   	0   	0-3   	75-95   	65-90   	45-80   	5-35   	0-25   	NP-5   
		15-23	Very gravelly   sand, very   gravelly   coarse sand,   very gravelly   loamy sand	GP, SP,   SP-SM, GP-GM     	A-1       	0       	2-5         	30-65         	15-45         	5-40       	0-10         	0-20       	NP-1         
	i i	23-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5 	95-100 	85-95 	75-90 	  50-75 	25-40	5-20
Grimstad	3	0-9	Fine sandy loam	SC-SM, SM	A-2-4, A-4	j o	,   0	95-100	95-100	65-90	20-50	0-30	NP-10
		9-22	Loamy sand, loamy fine sand, fine sand	SC-SM, SM	A-2-4, A-4   	0   	0     	100     	95-100     	  65-85     	15-50     	15-25   	NP-10     
		22-28	1	SW-SM, SM     	A-2, A-2-4,   A-3 	0     	       	   100     	  95-100     	  80-90     	5-35     	0-20	  NP-3   
	 	28-60	Clay loam, loam	CL-ML, CL	A-4, A-6 	0-1 	0-5 	  95-100 	85-95 	75-90 	  50-75 	  25-40 	5-20
Hamerly, very			Į.	Į.	I	1						1	
cobbly	3				A-4, A-6	1-3			90-100			20-40	5-20
			Loam, clay loam		A-4, A-6	0-1			85-95		•		5-20
	!!!	25-60	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Strathcona	3     3	0-10	  Fine sandy loam 	  SC-SM, SM,   CL-ML, ML	  A-4 	0	   0 	  95-100 	  90-100 	  70-85 	  40-55 	0-25	  NP-10 
	 	10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	SC-SM, SM     	A-2-4, A-4     	0     	0     	95-100     	  95-100     	65-85       	15-50     	20-30	NP-10     
		17-28	Sand, fine   sand, loamy   fine sand	SP-SM, SM   	A-2, A-3,   A-2-4	i 0   	   0-1 	  95-100   	  90-100   	50-80   	5-30   	0-20   	NP-3   
	 	28-80	Loam, clay loam	CL, CL-ML	A-6, A-4 	0-1 	0-5 	95 <b>-</b> 100 	85-95 	75-90 	50-75	25-40	5-20
Roliss, depressional	   1	0-14	  T.oam	CL, CL-ML	  A-4, A-6	   0-1	   0-1	  95-100	  85-95	  80-95	  60-85	120-40	   5-20
COPI CODIONAL-	!		Clay loam, loam		A-4, A-6	0-1	•	•	85-95	•	•		5-20
	i i		Loam, clay loam		A-6, A-4	0-1			85-95				5-20
	j i			i	İ	i -	İ			İ			i

Map symbol	Pct. of	   Depth	USDA texture	Classif	ication	Fragi 	ments		rcentago sieve n	e passi: umber	ng	  Liquid	    Pla:
and	map unit		i		I	>10	3-10	i				limit	
component name		i	İ	Unified	AASHTO	inches	inches	4	10	40	200	i	index
		In	ļ			Pct	Pct	<u> </u>	ļ	ļ	ļ	Pct	İ
I27A:		 	 	 	 		 	 	 	 	 		
Hamre	80	0-13	Muck	PT	A-8	0	0	100	100				
		13-18   	Loam, clay   loam, silt   loam	CL, CL-ML   	A-4, A-6   	0-1   	0-3   	90-100   	80-100   	70-100   	50-90   	25-40   	5-20   
		18-71	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		71-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85 <b>-</b> 95	75 <b>-</b> 90	50 <b>-</b> 75	25-40	5-20
Northwood	5	   0-9	  Muck	  PT	  A-8	0	0	1 100	   100	 	 		
		9-14   	Fine sandy   loam, loamy   fine sand,   loamy sand	SC-SM, SM     	A-2, A-4,   A-2-4 	0   	0-3   	95-100     	90-100     	50-85     	15-50     	0-25	NP-10     
		14-24   		  SP-SM, SM   	A-2, A-3,   A-2-4 	0	0-3     	  95-100     	  80-100     	  70-95     	   5-35     	0-15   	NP-3   
		24-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	  85-95 	75-90	  50-75	25-40	5-20
Roliss	5	   0-14	Loam	  CL-ML, CL	  A-4, A-6	0-1	I   0-5	  95-100	  80-100	  80-100	  60-90	  20-40	5-20
	İ	14-20	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Smiley	5	   0-12	  Loam	  ML, CL, CL-ML	  A-4, A-6	0-1	   0-2	  95-100	  85-100	  70-95	  50-80	  15-35	2-12
		j I	Clay loam,   loam, silty   clay loam	 	A-6   	0-1	i I	  95-100   	İ İ	i I	i I	į į	10-20   
		19-42	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		42-80 	Loam, clay loam	CL, CL-ML	A-6, A-4 	0-1 	0-5 	95 <b>-</b> 100	85-95 	75-90 	50-75 	25-40 	5-20
Cathro	3	0-11	Muck	PT	A-8	, 0	0	100	100	i	i	i	
		11-23	Muck	PT	A-8	0	0	100	100				
		23-60	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5 	95 <b>-</b> 100	85 <b>-</b> 95 	75-90 	50-75 	25-40	5-20
Kratka	2	0-11	  Fine sandy loam	SM, SC-SM	  A-4	0	0	  95 <b>-</b> 100	  90 <b>-</b> 100	  50-80	  35-50	0-25	  NP-10
		11-18   	Loamy sand,   sand, loamy   fine sand	SW-SM, SM,   SP-SM 	A-2-4, A-3   	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20   	NP-3   
		18-25 	Loamy sand,   sand, fine   sand	SW-SM, SP-SM,   SM	A-2-4, A-2,   A-3	0 	0   	95-100   	90-100   	50-80   	5-35   	0-20	NP-3   
			Sand	ı	1	1	1	1	ı	1	1	1	

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classin	fication	Fragi	nents	•	rcentago sieve n	e passin umber	ng	  Liquid	   Plas-
and	map unit		Į.	[	ļ	>10	3-10	ļ				limit	ticity
component name			L	Unified	AASHTO	inches		4	10	40	200		index
		In	!	!	!	Pct	Pct	!	ļ	!	ļ	Pct	!
I32A:													
Hilaire	   75	   0_10	  Fine sandy loam	lwor or ew	  A-2-4, A-4	I I 0	l l 0	  90-100	   75_100	   50_95	   30_55	   0-25	  NP-10
niiaile	/3	0-10		SC	A-2-1, A-1	1	,	30-100	/3-100 	30-83	  30-33	0-23 	NF-10
	i	10-34	Fine sand,	SP-SM, SM	A-1, A-3,	0	0-5	85-100	  75-100	  45-85	5-40	0-20	NP-3
	i		loamy fine	İ	A-2-4	İ	İ	İ	į	į	į	İ	i
	İ		sand, sand	ĺ	j	Ì		ĺ	ĺ	ĺ	ĺ	ĺ	İ
		34-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty	!		ļ		!	ļ	!	ļ	ļ	ļ
		İ	clay loam								 		
Espelie	12	0-9	  Fine sandy loam	l Ict. Mi. sc.	  A-2-4, A-4	I I 0	l l 0	  95-100	  85-100	l  60-85	  30-65	l l 0-25	  NP-10
Espeile	12	0-3		SM	N-2-1, N-1	"	ı	JJ = 100	05-100 	00-05 	50-05 	0-25 	
	i	9-24	Loamy sand,	SM, SP-SM	A-2, A-3,	0	0-5	85-100	  60-100	30-80	5-40	0-20	NP-3
	İ		loamy fine	İ	A-1, A-2-4	İ	İ	į	İ	İ	İ	İ	į
	l I		sand, fine										
			sand	!						!		!	
		24-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty clay loam	 					 	 	 		
			Clay Ioam	! !	I			I I	l I	l I	l I		I I
Huot	   5	0-14	Fine sandy loam	SM, SC-SM	A-4	i 0	0	90-100	  75-100	I  50-85	l   25-55	0-30	NP-10
			Loamy fine	SM, SC-SM	A-2-4, A-4	0			•		•	15-25	
	İ		sand, fine	İ	j	İ	İ	į	İ	İ	İ	İ	į
	l I		sandy loam										
		26-34		SM, SP-SM	A-2-4, A-3,	0	0	90-100	75-100	50-80	5-35	0-20	NP-3
			sand, fine		A-2							!	
		34-80	sand  Silty clay,	l CH	  A-7	   0-1	l l 0-3	   05_100	   05_100	   00_100	  75_05	  40-70	  20_45
		34-00	clay, silty	l I	A-7 	1 0-1	l 0-3	 	 	30-100	/ J - J J	<del>1</del> 0-70	20-45 
	i		clay loam	i		i		i	i	i	İ	i	i
	į		į	j	j	İ	İ	į	į	į	İ	İ	į
Flaming	2	0-12	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	95-100	65-80	15-30	0-20	NP-5
		12-17	Fine sand,	SW-SM, SM	A-2-4, A-3	0	0	100	95-100	50-80	5-30	0-20	NP-3
			loamy sand,	!		ļ		!	!	!	ļ	ļ	ļ
		15.05	sand										
		17-27	Fine sand,   loamy sand,	SM, SW-SM	A-2-4, A-3	0	0	100	95-100 	50-80 	5-30 	0-20	INP-3
			sand	! 	I I			! 	l I	! !	l I		! !
		27-60	Fine sand,	SM, SW-SM	A-2-4, A-3	0	0	100	  95-100	  50-80	   5-30	0-20	NP-3
	i		loamy sand,	i	j	į	i	i	j	į	į	į	i
	İ		sand	l									

| 2-5 | 20-65 | 15-45 | 5-40 | 0-10 | 0-20 | NP-3

0-1 | 0-3 | 95-100 | 95-100 | 90-100 | 75-95 | 40-70 | 20-45

	Pct. of map unit	   Depth   	   USDA texture   	Classification		Fragments 		Percentage passing sieve number			  Liquid	   Plas-  ticity	
and component name				   Unified	   AASHTO	inches		4	10	40	200		index
	İ	In		 		Pct	Pct	<u> </u>	 	ļ	   	Pct	
I32A:	 	 	 	! 	 					¦	 		
Foxlake	2	0-19	Loam	CL, CL-ML	A-4, A-6	0-1	0-2	95-100	90-100	75-90	50-80	20-40	5-20
	 	19-38   	Silty clay,   clay, silty   clay loam	CH 	<b>A-</b> 7   	0-1	0-3   	95-100   	95-100   	90-100   	75-95   	40-70   	20-45   
	 	38-49   	Silty clay,   clay, silty   clay loam	CH 	<b>A-</b> 7   	0-1	0-3   	95-100   	95-100   	90-100   	75-95   	40-70   	20-45   
	 	49-80   	Silty clay,   clay, silty   clay loam	СH   	A-7   	0-1	0-3	95-100     	95-100     	90-100   	75-95     	40-70	20-45
Wheatville	   2 	   0-9 	  Very fine sandy   loam	  CL-ML, CL, ML 	  A-4 	0	0	   100 	   100 	  90-100 	  50-95 	  15-35 	  NP-10 
	 	9-31   	Silt loam, very   fine sandy   loam, loam	  ML, CL-ML, CL   	  A-4 	0	0	   100   	   100   	  90-100   	  85-95   	0-30	  NP-10   
	 	31-80   	Silty clay,   clay, silty   clay loam	СH   	A-7   	0-1     	0-3 	95-100     	95-100     	90-100   	75-95     	40-70	20-45   
Thiefriver	   1 	   0-12 	  Fine sandy loam 	  ML, SC-SM,   SM, CL-ML	  A-4 	0	   0 	  95-100 	  80-100 	  70-90 	  35-55 	   0-25 	  NP-10 
	 	12-23     	Fine sandy   loam, sandy   loam, loamy   fine sand	SC-SM, SM     	  A-2-4, A-4   	0	0   	95-100     	95-100     	  65-85     	  15-50     	20-30	NP-10     
	 	23-32     	Fine sand,   loamy fine   sand, loamy   sand	SP-SM, SM   	A-2-4, A-2,   A-3 	0	0-3   	90-100     	80-100     	50-80       	5-35       	0-20	NP-3     
		32-80     	Silty clay,   clay, silty   clay loam	  Сн 	  A-7   	0-1	0-3	  95-100     	  95-100     	  90-100     	75-95     	40-70   	  20-45     
Wyandotte      	1	   0-8	  Clay loam	CL	  A-6	0-1	0-3	95-100	  85-100	70-95	  50-70	30-40	10-15
	 	8-15 	Loam, sandy   clay loam	CL, CL-ML 	A-4 	0	0-3 	95 <b>-</b> 100 	80-95 	60-90 	50-65 	20-35 	5-10 

| 15-34 | Gravelly loamy | SP, SP-SM,

GP, GP-GM

A-7

coarse sand,

gravelly sand,
very gravelly
loamy coarse
sand
34-60 | Silty clay,

clay, silty clay loam

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentag sieve n	e passi: umber	ng	  Liquid	   Plas-
and	map unit		j	ĺ		>10	3-10	İ				limit	ticity
component name				Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct					Pct	
I34A:				! 	 		 	! 	 	! 	 		! 
Huot	75	0-14	Fine sandy loam	SM, SC-SM	A-4	0	0	90-100	75-100	50-85	25-55	0-30	NP-10
	       	14-26	Loamy fine   sand, fine   sandy loam	SM, SC-SM   	A-2-4, A-4   	0   	0   	95-100   	95-100   	60-85   	25-55   	15-25   	NP-10   
	 	26-34	Loamy fine   sand, fine   sand	SM, SP-SM   	A-2-4, A-3,   A-2 	0   	0   	90-100   	75-100   	50-80   	5-35   	0-20   	NP-3   
	 	34-80	Silty clay,   clay, silty   clay loam 	Сн   	A-7     	0-1   	0-3     	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     
Thiefriver	12	0-12	Fine sandy loam	SC-SM, CL-ML,	  A-4 	j o I	0 	95-100 	80-100 	70-90 	35-55 	0-25	  NP-10 
	 	12-23	Fine sandy   loam, sandy   loam, loamy   fine sand	SC-SM, SM     	A-2-4, A-4     	0     	0     	95-100     	95-100     	65-85     	15-50     	20-30	NP-10     
	 	23-32	Fine sand,   loamy fine   sand, loamy   sand	SP-SM, SM     	A-2-4, A-2,   A-3 	0     	0-3   	90-100     	80-100     	50-80     	5-35     	0-20	NP-3   
	 	32-80	Silty clay,   clay, silty   clay loam	Сн     	<b>A-7</b>     	0-1   	0-3     	95-100     	  95-100     	90-100     	75-95       	40-70     	20-45     
Hilaire	5	0-10	Fine sandy loam	SM, SC, ML,	  A-2-4, A-4 	j o	   0 	90-100 	75-100 	  50-85 	30-55 	0-25	  NP-10 
	 	10-34	Fine sand,   loamy fine   sand, sand	SP-SM, SM   	A-1, A-3,   A-2-4 	0   	0-5   	85-100   	  75-100   	45-85   	5-40   	0-20   	NP-3   
	 	34-80	Silty clay,   clay, silty   clay loam	СН   	A-7   	0-1   	0-3     	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     
Flaming	3	0-12	Loamy fine sand	SC-SM, SM	A-2-4	j o	0	100	  95-100	65-80	15-30	0-20	NP-5
			Fine sand,   loamy sand,   sand	SW-SM, SM	  A-2-4, A-3   	0   	   0 		  95-100   		5-30   	0-20	NP-3 
	i i I I	17-27	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3   	0   	0   	   100   	95-100   	50-80   	5-30   	0-20	NP-3   
		27-60	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3   	0	0   	100   	95-100   	50-80   	5-30   	0-20	NP-3   

Map symbol	Pct. of	Depth	   USDA texture	Classif	ication	i	ments	•	rcentag sieve n	e passi: umber	ng	  Liquid	•
and	map unit					>10	3-10					limit	
component name			<u> </u>	Unified	AASHTO		inches	4	10	40	200		index
		In	 	 	 	Pct 	Pct 	 	l I	l I	l I	Pct I	l I
I34A:			i	i I	i I	<u> </u>	 	<u> </u>	 	<u> </u>	İ	i	i
Foxlake	3	0-19	Loam	CL-ML, CL	A-4, A-6	0-1	0-2	95-100	90-100	75-90	50-80	20-40	5-20
		19-38	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty									[	
			clay loam										
		38-49		CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95 	40-70	20-45
		 	clay, silty clay loam	l I	l I	 	l I	 	l I	 	l I		 
		49-80	Silty clay,	ı lсн	I   A-7	   0-1	l l 0-3	  95-100	I   95-100	I   90-100	I   75-95	  40-70	20-45
	i		clay, silty		· 		i						
j	į į		clay loam	İ	İ	į	İ	į	İ	į	İ	i	İ
Ulen	   2	0-9	  Fine sandy loam	  sw.sc-sw.sc	   a_4	   0	   0	   100	   100	  80-100	  35-50	0-25	  NP=10
01011				sm, sc-sm	A-2-4, A-4	l 0	l 0					15-25	
	i		loam, sandy	İ	İ	į	İ			İ	İ	i	
İ	İ		loam, loamy	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	İ	ĺ
			fine sand										
		42-60	Fine sand, sand	SP-SM, SM	A-1, A-2, A-3	0	0	85-100	75-95 	45-75	5-25	0-20	NP-3
I36A:			 	! 	! 	! 	! 	<u> </u>	 	İ	 	i	 
Kittson	70	0-10	Loam	CL, CL-ML	A-4, A-6	0	0	100	95-100	85-95	50-75	20-35	5-15
		10-17		SC, CL	A-4	0	0-5	90-100	65-100	55-90	35-75	20-35	5-10
			sandy loam,			!	!	ļ	ļ	!	ļ	!	ļ
			sandy loam										
			Clay loam, loam		A-4, A-6  A-6, A-4	0-1   0-1	•	95-100  95-100			•		5-20   5-20
		36-60	Loam, Clay Ioam	CL, CL-ML	A-0, A-4 	U-1	0-3 		65-95	/3-90 	50-75 	25-40	5-20 
Roliss	12	0-14			A-4, A-6	0-1		95-100					5-20
			Clay loam, loam		A-4, A-6	0-1	•	95-100	•	•	•	•	5-20
		20-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95 	75-90 	50-75	25-40	5-20
Hamerly	   5	0-8	  Loam	  CL-ML, CL	  A-4, A-6	   0-1	   0-5	  95-100	  90-100	  80-95	  60-90	20-40	5-20
	j j	8-25	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		25-60	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Kratka	l 5 l	0-11	  Fine sandy loam	  sc-sm.sm	  A-4	l I o	l I o	  95-100	  90-100	  50-80	  35-50	   0-25	  NP-10
					A-2-4, A-3	0	•	95-100	•		•	0-20	NP-3
			sand, loamy	SP-SM	İ	į	į	į	ĺ	į	į	į	į
		100	fine sand										
		18-25			A-2-4, A-2,   A-3	0	0	95-100	90-100 	50-80	5-35	0-20	NP-3
		 	sand, fine sand	SW-SM	M-3 	I I	l I	I I	l I	I I	l I		 
	 	25-80	Clay loam, loam	CL, CL-ML	  A-6, A-4	   0-1	l l 0-5	  95-100	ı   85-95	ı   75-90	  50-75	25-40	   5-20
				, <b></b>	, 	, · -	,	1 - 5 - 50	1		- 0 . <b>.</b>		

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentag	_	ng	  Liquid	   Plas-
and	map unit		ļ.		ļ	>10	3-10	ļ				limit	ticity
component name				Unified	AASHTO	inches		4	10	40	200	l	index
		In				Pct	Pct					Pct	
136A:			l I	l I	l I			 	 	 			 
Grimstad	l 3	0-9	  Fine sandy loam	I ISC-SM. SM	  A-2-4, A-4	l l 0	l l 0	I   95-100	  95-100	I 165-90	  20-50	l 0-30	  NP-10
			Loamy sand,	SM, SC-SM	A-2-4, A-4	0						15-25	
	į		loamy fine sand, fine	  -	İ	į		į i	į i	į	<u>.</u>	į	į
	i		sand, line	! 	i i		 	! 	i İ	i i	i	i	! 
	j j	22-28	Loamy sand,	SM, SW-SM	A-2, A-2-4,	0	0	100	95-100	80-90	5-35	0-20	NP-3
			loamy fine		A-3								
			sand, fine										
		28-60	sand  Loam, clay loam	CL, CL-ML	  A-4, A-6	0-1	   0-5	  95-100	  85-95	  75-90	  50-75	  25-40	   5-20
Strandquist	   3	0-10		CL-ML, CL	  A-4	   0	   0	   05 100	  80-100			120 20	   5-10
scrandquisc	, 3 , 		Gravelly sand,		A-1	1 0			15-45				
	i		gravelly	SP, GP-GM,	İ								
				GW-GM					l				
			very gravelly					!	ļ			!	
		20-60	sand  Loam, clay loam	  CL-ML, CL	  A-4, A-6	0-1	0-5	  95-100	  85-95	  75-90	  50-75	  25-40	   5-20
Tarah ama		0.10		l are									
Foxhome	2		Sandy loam  Fine sand,	SM  SW-SM, SM	A-4  A-2-4, A-3	0   0			90-100  65-90		•	0-25	NP-10
	i	10-15	loamy fine		N-2-1, N-3	i	U-3 	/ 5 – 5 5 	03-30 	<del>1</del> 5-00	J-33	0-25	
	i i		sand, sand	İ	i	i		İ	i	İ	i	i	İ
	i i	15-23	Very gravelly	SP, SP-SM,	A-1	0	2-5	30-65	15-45	5-40	0-10	0-20	NP-1
			sand, very	GP-GM, GP	ļ			!	!	!		!	!
			gravelly										
			coarse sand, very gravelly	 	 			l I	l I	l I	l I		l I
	i		loamy sand	İ	i			! 	İ	<u> </u>		i	 
	i	23-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95 <b>-</b> 100	85-95	75-90	50-75	25-40	5-20
			ļ	!	ļ			!	!	!		!	!
I38A:		0.11		  aa ay ay									
Kratka	70		Fine sandy loam  Loamy sand,	SC-SM, SM	A-4  A-2-4, A-3	0   0			90-100  90-100			0-25	
		11-10	sand, loamy	SW-SM	A-2-4, A-3	1	U	   33-100	 	50 <b>-</b> 80	5-35	0-20 	NP-3 
	i		fine sand		i	i		i	i	i	i	i	i
	i i	18-25	Loamy sand,	SW-SM, SP-SM,	A-2-4, A-2,	0	0	95-100	90-100	50-80	5-35	0-20	NP-3
			sand, fine	SM	A-3								
		000	sand										
		25-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5 I	95-100 ו	85-95 	75-90 	50-75 	25-40 	5-20 
			I	I	I	I	l	I	I	I	I	I	I

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Frag	ments		rcentago sieve n			  Liquid	   Plas-
and	map unit	Depen	ODDIT CONCUIC	 	I	>10	3-10	' 	51010 11	uniber .			ticity
component name			i	Unified	l aashto		inches	————   4	l 10	l 40	l 200		index
		In	l		l	Pct	Pct	İ	1	l	1	Pct	l
	j i		İ	İ	İ	İ	İ	j	į	į	İ	İ	İ
I38A:					<u> </u>								
Smiley	7	0-12	•	ML, CL, CL-ML		0-1			85-100				2-12
	 	12-19	Clay loam,   loam, silty   clay loam	   	A-6   	0-1   	0-3   	95-100   	85-100   	70-95   	50-80   	25-40   	10-20   
	j i	19-42	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		42-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Foldahl	l 5	0-12	  Fine sandy loam	  SC-SM, SM	  A-2-4, A-4	   0	l I 0	  95-100	  95-100	  65-90	  20-50	   0-25	  NP-10
	 	12-30	Fine sand,   loamy fine   sand, sand	SP-SM, SW-SM,   SM	A-2-4, A-3   	0   	0-2   	  95-100   	  90-100   	50-80   	5-30   	0-20   	NP-3   
	 	30-80	Loam, clay loam	CL, CL-ML	A-6, A-4 	0-1	0-5 	95-100 	85 <b>-</b> 95 	75-90 	50-75 	25-40	5-20 
Kratka, very	<u> </u>			İ	İ		i	i	i	i	i	i	<u> </u>
cobbly	5	0-11	Fine sandy loam	SM, SC-SM	A-4	1-3	1-10	95-100	90-100	50-80	35-50	0-25	NP-10
	   	11-18	Loamy sand,   sand, loamy   fine sand	SW-SM, SP-SM,   SM 	A-2-4, A-3   	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20   	NP-3   
	 	18-25	Loamy sand, sand, fine sand	SW-SM, SP-SM, SM	A-2-4, A-2,   A-3 	j o   	i o I I	  95-100   	  90-100   	50-80   	5-35   	0-20   	NP-3   
		25-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Strathcona	   5   	0-10	  Fine sandy loam 	  CL-ML, ML,   SC-SM, SM	  A-4 	0	   0 	  95-100 	  90-100 	  70-85 	  40-55 	0-25	  NP-10 
	     	10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0   	0     	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
	 	17-28	Sand, fine   sand, loamy   fine sand	SM, SP-SM   	A-2-4, A-3,   A-2 	j 0   	   0-1 	  95-100   	  90-100   	50-80   	5-30   	0-20	NP-3   
	j I	28-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5 	95-100	85-95 	75-90	50-75 	25-40	5-20 
Kratka, depressional	   3   	0-11	    Mucky fine   sandy loam	  ML, SC-SM,   CL-ML, SM	    A-4 	   0 	   0 	  95-100 	  90-100 	  70-85 	  40-55	0-25	    NP-10 
	 	11-18	-	SW-SM, SP-SM,	  A-2-4, A-3 	0 	   0 	  95-100 	  90-100 	  50-80 	5-35	0-20	NP-3 
	 	18-25	Loamy sand,	  SW-SM, SP-SM,   SM	  A-2-4, A-2,   A-3	   0 	   0 	  95-100   	  90-100   	  50-80 	5-35	0-20	NP-3 
		25-80	Loam, clay loam	CL-ML, CL	  A-6, A-4	0-1	0-5	  95-100	  85 <b>-</b> 95	  75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	nents	•	rcentage	_	_	  Liquid	   Plas-
and	map unit		ODDIT CONCUTO	l	ı	   >10	3-10	i '	D1010 11	uniber		limit	
component name	Map dire		I I	   Unified	AASHTO		inches	————   4	10	l 40	1 200		index
Component name		In	!		AADIIIO	Pct	Pct	-				Pct	
I38A:	 	 		 	 	 	 	 	 	 		 	 
Strandquist	3	0-10	Loam	CL-ML, CL	A-4	0		95-100	80-100	75-90	50-75	20-30	5-10
	     		Gravelly sand,   gravelly   coarse sand,   very gravelly   sand	SP, GP, GW-GM	 	0       	     	     	15-45       	     	     	i     	     
	 	20-60 	Loam, clay loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Linveldt	2	0-9	Fine sandy loam	SC-SM, SM	A-2-4, A-4	0	0-5	95-100	95-100	65-90	20-50	0-25	NP-10
	 	9-16 	Sandy clay   loam, loam,   sandy loam	SC-SM, SC, CL-ML, CL	A-2-4, A-4   	0-1   	0-5   	95-100   	80-100   	50-90   	25-75   	20-30   	5-10   
	 	i I	sand, coarse sand	SC-SM, SM,   SP-SM 	A-1, A-2, A-3   	 	 	 	55-100   	 	į Į	0-20   	; [
		29-45	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1			85-95				5-20
	 	45-80 	Loam, clay loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
I39A:													
Linveldt	65		Fine sandy loam		A-2-4, A-4	0			•		•	0-25	
	 	9-16   		SC, SC-SM,   CL-ML, CL 	A-2-4, A-4   	0-1   	0-5   	95-100   	80-100   	50-90   	25-75   	20-30   	5-10   
	   	16-29   	Loamy sand, sand, sand, coarse sand	SC-SM, SM,	A-1, A-2, A-3   	0-1   	0-5   	65-100   	55-100   	30-80   	5-30   	0-20	NP-3   
		29-45	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	45-80 	Loam, clay loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Kratka	14	0-11	Fine sandy loam	SM, SC-SM	A-4	0	0	95-100	90-100	50-80	35-50	0-25	NP-10
	   	11-18   	Loamy sand, sand, loamy fine sand	SW-SM, SP-SM,   SM 	A-2-4, A-3   	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20   	NP-3   
	   	18-25   	Loamy sand,   sand, fine   sand	SW-SM, SM,   SP-SM 	A-2-4, A-2,   A-3 	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20   	NP-3   
	 	25-80 	Loam, clay loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Reiner	10	0-7	Fine sandy loam	SM, SC-SM	A-4	0	0-5	85-100	85-95	65-85	35-50	15-35	NP-10
	   	7-17   	Clay loam,   loam, sandy   clay loam	  -  CT	A-6   	   0 	0-3   	85-100   	75-100   	60-95   	55-80   	25-40   	10-20   
		17-35	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	35-80 	Loam, clay loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5	95-100 	  85-95 	75-90 	50-75 	25-40 	5-20 

Map symbol   and	Pct. of map unit	Depth	USDA texture	Classif	ication 	Fragi     >10	ments	•	rcentage sieve n	_	_	  Liquid	    Plas-  ticity
component name	map dire			Unified	AASHTO		inches	4	10	40	200		index
		In	ļ	<u> </u>		Pct	Pct	<u> </u>		İ	İ	Pct	İ
I39A:				 	 	 	 	 	 	 	 		
Smiley	5	0-12	Loam	CL-ML, ML, CL	A-4, A-6	0-1	0-2	95-100	85-100	70-95	50-80	15-35	2-12
		12-19	Clay loam,   loam, silty   clay loam	CL 	A-6   	0-1   	0-3   	95-100   	85-100   	70-95   	50-80   	25-40   	10-20   
	i	19-42	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	  85-95	  75-90	50-75	25-40	5-20
į	į		Clay loam, loam		A-6, A-4	0-1		95-100					•
Eckvoll	3	0-9	  Loamy fine sand	  sc-sm, sm	  A-2	   0-1	   0-2	  90-100	  85-100	  65-80	  15-30	0-20	  NP-5
		9-25	Fine sand,   sand, loamy   fine sand	SP-SM, SM   	A-1, A-2, A-3   	0   	0-2   	95-100   	95-100   	45-75   	5-30   	0-20   	NP-3   
		25-32	Clay loam,   sandy clay   loam, loam	sc, cl   	A-6   	0   	0-5   	90-100   	75-100   	60-95   	45-75   	25-40   	10-20   
ļ		32-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1 	0-5 	95 <b>-</b> 100	85-95 	75-90 	50 <b>-</b> 75	25-40 	5-20 
Foldahl	2	0-12	Fine sandy loam	SM, SC-SM	  A-2-4, A-4	0	0	95-100	  95-100	  65-90	20-50	0-25	  NP-10
	İ	12-30	Fine sand,   loamy fine   sand, sand	SW-SM, SP-SM, SM	A-2-4, A-3   	0   	0-2   	95-100   	  90-100   	50-80   	5-30 	0-20	NP-3   
		30-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95 I	75-90	50-75	25-40	5-20
  Pelan	1	0-6	Sandy loam	SC-SM, SM	  A-4	l   0	0-5	  85-100	ı  85-95	  65-85	  35-50	15-35	  NP-10
	İ	6-9	Fine sand,   sand, loamy   fine sand	SP-SM, SM   	A-1, A-2, A-3   	0   	0-2   	  95-100   	  95-100   	45-75   	5-30   	0-20   	NP-3 
		9-14	Very gravelly   sandy loam,   very gravelly   sandy clay   loam	GM, SM, GC,   SC     	A-1, A-2       	0       	2-5       	45-85       	25-50     	10-45       	5-35       	20-30       	NP-10       
		14-20	Very gravelly   sand, very   gravelly   coarse sand,   very gravelly   loamy sand	GP-GM, GP,   SP-SM, SP     	A-1       	0         	2-5         	30-65         	15-45         	5-40       	0-10         	0-20         	NP-3       
i	i	20-60		CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

A-8

A-2-4

|SM, SP, SP-SM|A-2, A-3,

0

0

PT

| 0 | 100 | 100 | --- | --- |

0 | 100 | 75-100 | 60-75 | 0-20 | 0-20 | NP-3

**I41A:** 

Markey---- 80

0-32 Muck

| 32-60 | Fine sand,

| loamy sand,

coarse sand

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

T41A:  Deerwood	200     Pct	ticity  index
T41A:  Deerwood	Pct 	      NP-10 
T41A:  Deerwood		
Deerwood	  15-50   0-25     	
Deerwood	  15-50   0-25     	
10-12   Fine sand,   SC-SM, SM   A-4, A-2-4   0   0-2   95-100   90-100   50-75   1	  15-50   0-25     	
loamy sand,	i i I I I I	
fine sandy	       0-25   0-20   	      NP-3
loam   loam	   0-25   0-20 	  NP-3
12-60   Fine sand,   SM, SP-SM, SP A-1, A-2, A-3   0   0-5   75-100   55-100   35-70	0-25   0-20	NP-3
sand, gravelly		
Berner 2   0-28   Muck   PT   A-8   0   0   100	i i	
		į
	110-50   15-25	NP-10
fine sandy   A-4	i	i
loam, gravelly	i i	i
sandy loam	i i	İ
31-44   Sand, loamy   SP-SM, SP, SM   A-2-4, A-2,   0   0   90-100   70-100   60-80	0-25   0-20	NP-3
sand, gravelly   A-3	i i	İ
sand		
44-80   Clay loam, loam   CL-ML, CL   A-6, A-4   0-1   0-5   95-100   85-95   75-90   5	50-75   25-40	5-20
Hamar 2   0-12   Loamy fine sand   SC-SM, SM   A-2-4   0   0   100   95-100   50-80   1.	  15-35   0-20	  NP-5
12-17   Loamy fine   SC-SM, SM,   A-2-4   0   0   100   95-100   50-80   1	10-35   0-20	NP-3
sand, loamy   SP-SM		
sand, fine	1 1	
sand	1 1	
	5-35   0-20	NP-3
loamy sand,   SM	!!	!
loamy fine	!!!	!
sand		
40-47   Loamy fine sand   SM, SC-SM   A-2-4   0   0   100   95-100   50-80   1		NP-5
	5-35   0-20	NP-3
loamy sand,   SC-SM		!
	<u> </u>	1

Map symbol	Pct. of	Depth	USDA texture	Classif:	ication	Fragi	nents	•	rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit		İ		1	>10	3-10	i				limit	•
component name	i - i		į	Unified	AASHTO	inches	inches	4	10	40	200	i	index
		In	!	ļ	]	Pct	Pct	<u> </u>				Pct	!
I41A:			 	 	 	 	 	 	 	 	 	l I	 
Syrene	2	0-9	Sandy loam	SC-SM, SM	A-4	0-1	0-3	  95-100	80-100	60-75	20-45	0-25	NP-10
• • •	i	9-17	Loam, sandy	CL-ML, SC-SM,		0		95-100					5-15
	i		loam, sandy	SC, CL	İ	į	İ	į	İ	İ	İ	i	İ
	İ		clay loam	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
	İ	17-27	Stratified	SP, SP-SM	A-1, A-2, A-3	0-1	0-5	70-95	55-80	30-60	0-10	0-20	NP-3
			loamy fine										
			sand to										
			gravelly										
			coarse sand										
		27-60	1	SP, SP-SM	A-1, A-2, A-3	0-1	0-5	70-95	55-80	30-60	0-10	0-20	NP-3
			loamy fine			!	!	!	ļ	!	ļ	ļ.	ļ
			sand to			ļ	ļ	ļ		ļ	ļ	ļ	ļ
			gravelly										!
			coarse sand	 	 	l I	l I	l I	l I	l I	l I	l I	 
I42A:	i		İ	İ	İ	İ	İ	İ	İ	İ	i	i	<u> </u>
Markey, ponded	85	0-32		1	A-8	0	0	100	100				
		32-60		SP-SM, SP, SM		0	0	100	75-100	60-75	0-20	0-20	NP-3
			loamy sand,	<u> </u>	A-2-4	!	!	!		!	ļ	ļ.	ļ
			coarse sand	 	 	l I	l I	l I	l I	l I	l I	l I	 
Markey	5	0-32	Muck	PT	  A-8	0	0	100	100		i	i	i
		32-60	Fine sand,	SM, SP, SP-SM	A-2, A-3,	0	0	100	75-100	60-75	0-20	0-20	NP-3
			loamy sand,		A-2-4								
			coarse sand			ļ	ļ	ļ		ļ			ļ
Deerwood	4	0-10	  Muck	  PT	  A-8	l   0	l   0	   100	   100	 	 	 	 
	i	10-12	Fine sand,	SC-SM, SM	A-2-4, A-4	0	0-2	95-100	90-100	50-75	15-50	0-25	NP-10
	İ		loamy sand,	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
	İ		fine sandy	ĺ		ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ
			loam										
		12-60	Fine sand,	SP-SM, SP, SM	A-1, A-2, A-3	0	0-5	75-100	55-100	35-70	0-25	0-20	NP-3
			sand, gravelly										
			sand			ļ		ļ		ļ		ļ	
Seelyeville,			 	 	 	l I	 	l I	 	 	 	 	l I
ponded	4 1	0-10	Muck	I   PT	I   A-8	l I 0	l I 0	l l 100	1 100	 	i	i	
<u>*</u>	-			1	A-8	l 0	l 0	100	100	 	i	i	
	i		peat	i		i	i	i		i	i	i	i
	i			i	i	i	i	i	i	i	i	i	i

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	   Depth	USDA texture	Classif	ication	Frag	ments	•	rcentag sieve n	_	_	  Liquid	
and	map uni	t				>10	3-10					limit	
component name				Unified	AASHTO	inches	inches	4	10	40	200		index
	ļ	In	!	!	!	Pct	Pct	İ	ļ	ļ	!	Pct	ļ
I42A:	 												
Hamar	   1	   0-12	Loamy fine sand	l Iew ec₌ew	  A-2-4	l l 0	l l 0	1 100	  95-100	  50_80	  15_35	0-20	  ND-5
11dilld1	i -		Loamy fine	SP-SM, SC-SM,	1	l 0	I 0	100	95-100			0-20	
	     		sand, loamy   sand, fine   sand	sm   	   	     	     	   	     	   	     		     
	 	17-40     	Fine sand,   loamy sand,   loamy fine   sand	SC-SM, SM, SP-SM	A-2-4, A-3   	0     	0     	100     	95-100       	50-80     	5-35   	0-20	NP-3     
	i	40-47	Loamy fine sand	SM, SC-SM	A-2-4	i o	0	100	95-100	50-80	15-35	0-20	NP-5
	     	47-60	Fine sand,   loamy sand,   loamy fine   sand	SM, SP-SM, SC-SM	A-3, A-2-4   	0     	0     	100     	95-100     	50-80     	5-35   	0-20	NP-3     
Hangaard	   1	   0=10	  Sandy loam	  sm	  A-2-4, A-4	I I 0	l l 0-3	   05_100	  80-100	  50-75	  15_45	1 0-25	  NP-10
nangaaru	<del>-</del>       		Loamy sand,   coarse sandy   loam, loamy   coarse sand	SM  SP-SM, SM     	A-1, A-2-4,   A-3	0   0   			80-95       		5-25   	0-20	
	       	15-80     	Gravelly coarse sand, gravelly sand, coarse sand		A-1, A-2, A-3     	0       	0-3       	70-95       	55-90       	30-60       	0-10       	0-20	NP-3       
I43A:	İ	i	i	İ	i	i	i	i	i	i	i	i	İ
Mavie	70		Fine sandy loam	!	A-4	0			90-100				NP-10
	   	12-18   	Loam, fine   sandy loam,   sandy loam	SM, CL-ML,   SC, SC-SM 	A-4, A-6   	0   	0-5   	95-100   	85-100   	65-95   	15-75   	20-35   	NP-15   
	         	18-39       	Very gravelly   coarse sand,   very gravelly   sand, very   gravelly loamy   sand	GP, GP-GM,   SP, SP-SM     	A-1         	0         	2-5         	30-65         	15-45         	5-40         	0-10         	0-20         	NP-3         
	 	39-80	Loam, clay loam	CL, CL-ML 	A-6, A-4	0-1	0-5	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Vallers	10		Loam	CL-ML, CL	A-4	0-1	•	•	90-100	•	•	20-40	5-20
	!	•	Clay loam, loam		A-4, A-6	0-1			85-95			25-40	5-20
	 	21-60 	Loam, clay loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi		•	rcentage sieve n	_	ng		   Plas-
and component name	map unit		l I	   Unified	   AASHTO	>10  inches	3-10	   4	l 10	l 40	l 200	limit	ticity  index
Component name	<u> </u>	In	Ī			Pct	Pct	-		40	200	Pct	
I43A:	 		[ [	 	 			 	 	 	 		
Strandquist	7	0-10	Loam	CL, CL-ML	A-4	0	0	  95 <b>-</b> 100	80-100	75-90	50-75	20-30	5-10
	 	10-20	Gravelly sand, gravelly coarse sand, very gravelly sand	GW-GM, SP-SM,   GP, SP,   GP-GM	A-1     	0     	2-5	30-65       	  15-45     	5-40     	0-10     	0-20     	NP-3     
		20-60	Loam, clay loam	CL, CL-ML	  A-6, A-4 	0-1	0-5	  95-100 	  85-95 	  75-90 	  50-75	25-40	5-20
Strathcona	   5   	0-10	  Fine sandy loam 	SM, SC-SM, ML, CL-ML	  A-4 	0	0	  95-100 	  90-100 	  70-85 	  40-55 	0-25	  NP-10 
		10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	•	  A-2-4, A-4   	0	0	  95-100   	  95-100   	  65-85   	  15-50   	20-30   	NP-10   
	     	17-28	!	  SP-SM, SM   	A-3, A-2,   A-2-4	   0 	0-1	  95-100   	  90-100   	  50-80   	5-30   	0-20	NP-3 
	i i	28-80	Loam, clay loam	CL, CL-ML	A-6, A-4 	0-1 	0-5	  95-100 	  85-95 	75-90	  50-75 	  25-40 	5-20
Strathcona,	j i		į	İ	İ	į į		į	į	j	İ	į	İ
depressional	3   	0-10	Mucky fine   sandy loam	CL-ML, ML,	A-4 	0 	0	95-100 	90-100	70-85 	40-55 	0-25	NP-10
	     	10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	SC-SM, SM     	A-2-4, A-4     	0   	0   	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
	 	17-28	Sand, fine   sand, loamy   fine sand	SP-SM, SM   	A-2-4, A-3,   A-2 	0   	0-1	95-100   	90-100   	  50-80 	5-30	0-20   	NP-3 
	i I	28-80	Loam, clay loam	CL, CL-ML	A-6, A-4 	0-1 	0-5	95-100 	85-95 	75-90	  50-75 	25-40	5-20
Foxhome	2	0-10	Sandy loam	SM	A-4	0	0-2	95 <b>-</b> 100	90-100	75-90	35-50	0-25	NP-10
	   	10-15	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3   	0   	0-3	75-95   	65-90   	45-80   	5-35   	0-25   	NP-5   
	         		sand, very   gravelly   coarse sand,   very gravelly   loamy sand	SP-SM, SP,   GP-GM, GP       	 	0       		       	  15-45         	       	0-10         	0-20         	       
		23-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	Depth	USDA texture	Classif:	lcation	Frag	ments		rcentage sieve n	_	ng	  Liquid	   Plas
and	map unit		İ			>10	3-10	İ				limit	ticity
component name			L	Unified	AASHTO	inches	inches	4	10	40	200	L	index
		In	[			Pct	Pct					Pct	ļ
I43A:	 		] 			 	 	 	 	 	 		 
Karlsruhe	2	0-15	Sandy loam	SM, SC, SC-SM	A-4, A-2	0	0-3	95-100	85-100	55-90	15-50	0-25	NP-10
	 	15-30	Sandy loam,   loamy sand	SC, SM, SC-SM 	A-2, A-4, A-1	0 	0-3 	95 <b>-</b> 100 	85-100 	45-75 	10-40 	0-25 	NP-10 
	 	30-60	Coarse sand,   gravelly   coarse sand,   gravelly sand	SP-SM, GP-GM, SP, SM, GP	A-1, A-2, A-3   	0       	0-5       	45-90       	30-80       	20-70       	0-15       	0-20     	NP-1       
Grimstad	1 1	0-9	Fine sandy loam	SM, SC-SM	A-2-4, A-4	0	, 0	95-100	95-100	65-90	20-50	0-30	  NP-10
	 	9-22	Loamy sand, loamy fine sand, fine sand	SC-SM, SM	A-2-4, A-4	0     	0     	100     	  95-100     	65-85     	  15-50     	15-25     	NP-10     
	 	22-28	Loamy sand,   loamy fine   sand, fine   sand	SW-SM, SM	A-2, A-2-4, A-3	0     	0     	100     	  95-100     	80-90     	5-35     	0-20	NP-3     
	i i	28-60	Clay loam, loam	CL-ML, CL	A-4, A-6	   0-1 	0-5	95-100 	85-95 	75-90 	50-75 	  25-40 	5-20 
I44A:			į			į	į	į	į	į	į	į	į
Newfolden	75       		1		A-4, A-6  A-7 	0   0   	0   0   	100   100   	95-100   100   		•	20-35  40-65 	5-15  20-40   
		16-36	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	36-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1 	0-5 	95 <b>-</b> 100 	85-95 	75-90 	50-75 	25-40	5-20 
Smiley	12	0-12	Loam	CL, CL-ML, ML	A-4, A-6	0-1	0-2	95-100	85-100	70-95	50-80	15-35	2-12
	 		Clay loam,   loam, silty   clay loam		A-6 	0-1   	 	95-100   	 	 	i 	i I	10-20   
			Clay loam, loam		A-4, A-6	0-1		95-100			•		5-20
	 	42-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1 	0-5 	95 <b>-</b> 100 	85-95 	75-90 	50-75 	25-40 	5-20 
Boash	8	0-9	Clay loam	CL	A-6	0-1	0-3	95-100	85-100	70-95	50-90	30-45	10-20
	 	9-29	Clay, silty clay, silty clay loam	CL, CH	A-7	0-1   	0-3   	95-100   	95-100   	90-100   	70-95   	40-70 	20-45
	j j	29-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	i	ments	•	rcentage sieve n	_	_	  Liquid	
and	map unit			   Unified	   AASHTO	>10	3-10  inches	   4	l 10	l 40		limit	ticity  index
component name		In	<u> </u>	Unified	AASHTO	Pct	Pct	<del>4</del>	<u> </u>	40 	200	Pct	Index
   I44A:	 		 	 	 	 	 	 	 	 	 	 	 
Linveldt	4	0-9	Fine sandy loam	SM, SC-SM	A-2-4, A-4	0	0-5	95-100	95-100	65-90	20-50	0-25	NP-10
	 	9-16	Sandy clay   loam, loam,   sandy loam	SC-SM, SC,   CL-ML, CL 	A-2-4, A-4   	0-1   	0-5   	95-100   	80-100   	50-90   	25-75   	20-30   	5-10   
	 	16-29	Loamy sand, sand, sand, coarse sand	SC-SM, SP-SM,   SM 	A-1, A-2, A-3   	0-1   	0-5   	65-100   	55-100   	30-80   	5-30   	0-20   	NP-3   
I		29-45	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
ļ		45-80	Loam, clay loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Hapludolls	1 1	0-9	Loam	CL-ML, CL	A-4, A-6	l   0	0-3	95-100	  95-100	  90-100	75-100	20-40	5-15
_		9-60	Clay loam, silt	CL, SC-SM,	A-4, A-6 	0-1   	0-5   	95-100   	  80-100 	55-100 	35-90 	  20-40 	5-20
I45A:			i	i I	i I	 	 	<u> </u>	 	<u> </u>	<u> </u>		i
Northwood	75	0-9	Muck	PT	A-8	0	0	100	100	j	j	j	j
		9-14	Fine sandy   loam, loamy   fine sand,   loamy sand	SC-SM, SM     	A-2-4, A-4,   A-2 	0     	0-3     	95-100     	90-100     	50-85     	15-50     	0-25     	NP-10     
		14-24		  SM, SP-SM   	A-2, A-3,   A-2-4 	     	0-3   	  95-100   	  80-100   	  70-95   	5-35     	0-15     	NP-3   
		24-80	Loam, clay loam	  CL-ML, CL 	  A-6, A-4 	   0-1 	   0-5 	  95-100 	  85-95 	  75-90 	  50-75 	  25-40 	5-20
Hamre	10	0-13	Muck	PT	A-8	0	0	100	100	i	i	i	
		13-18	Loam, clay loam, silt loam	CL-ML, CL	A-4, A-6   	0-1   	0-3   	90-100   	80-100   	70-100   	50-90   	25-40   	5-20   
i	i	18-71	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
İ		71-80	Loam, clay loam	CL-ML, CL	A-6, A-4 	0-1	0-5 I	95 <b>-</b> 100	85-95 I	75-90	50-75 	25-40 	5-20
Berner	   5	0-28	Muck	I PT	  A-8	l I 0	l I 0	100	1 100	 			
		28-31	Sandy loam,   fine sandy   loam, gravelly   sandy loam	  SC, SM, SC-SM     	A-2-4, A-2,   A-4 	     	     	90-100     	70-100     	  50-85     	10-50     	  15-25     	NP-10     
	 		sand, gravelly sand	İ	A-3 	0   	0   	90-100   	 	 	 	0-20   	
		44-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi		•	_	e passinumber	ng	  Liquid	
and	map unit					>10	3-10					limit	ticity
component name			<u> </u>	Unified	AASHTO		inches	4	10	40	200	<u> </u>	index
	!!!	In				Pct	Pct					Pct	
I45A:			l I	 	 		 		 		 		
Kratka	l 5 I	0-11	  Fine sandy loam	I ISC-SM. SM	  A-4	l l 0	I I 0	I   95-100	I   90-100	  50-80	I   35-50	l l 0-25	  NP-10
112 00110				SW-SM, SP-SM,	1	0	•			50-80	•	0-20	
	i i		sand, loamy	sm	   	i i	i i	į į	i I	İ	i I		İ
	i i	18-25	Loamy sand,	SW-SM, SM,	A-2-4, A-2,	j 0	0	95-100	90-100	50-80	5-35	0-20	NP-3
	i i		sand, fine	SP-SM	A-3 	i I	 	 	i I	 	 	i I	 
	i i	25-80	Loam, clay loam	CL-ML, CL	  A-6, A-4 	   0-1 	0-5	  95-100 	  85-95 	  75-90 	  50-75 	25-40	5-20
Strandquist	3	0-10	Loam	CL-ML, CL	A-4	0	0	95-100	  80-100	75-90	  50-75	20-30	5-10
j	i i	10-20	Gravelly sand,	GP, GW-GM,	A-1	j 0	2-5	30-65	15-45	5-40	0-10	0-20	NP-3
	 		gravelly   coarse sand,   very gravelly	SP-SM, SP,   GP-GM	 	   	   	   	   	   	   	   	   
	i i		sand	i I	i I	i	i i	i	! 	i	İ	i	i i
	i i	20-60	Clay loam, loam	CL, CL-ML	A-6, A-4 	   0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	  25-40 	5-20 
Roliss	2	0-14	Loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	  80-100	80-100	  60-90	20-40	5-20
	i i	14-20	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	20-80	Loam, clay loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
I46A:	i i		İ	İ	İ	i	İ	i	İ	i	İ	i	i
Pits	85		i	 	i	 	   	 	 	 	 	 	 
Udipsamments	10	0-14	Sand	SC-SM, SW-SM,	  A-2 	0 	   0 	95-100 	85-100 	75-90 	  10-35 	0-20	  NP-5 
j	i i	14-60	Sand, fine sand	SM, SW-SM	A-2, A-3	j 0	0-5	95-100	85 <b>-</b> 100	50-75	5-25	0-20	NP-3
		60-80	Gravelly coarse   sand, coarse   sand	SW-SM, SP-SM,   SP 	A-1, A-2   	0   	0-5   	70-95   	55-85     	25-60   	0-10   	0-20   	NP-3   
Radium		0-14	Loamy sand	SW-SM, SM	  A-2-4	0	l I 0	  95-100	  95-100	  50-70	   5-25	0-20	  NP-5
				•	A-1, A-2, A-3     	0     	0-5     	75-100       	  65-95     	35-60     	3-15     	0-20     	  NP-3   
		33-43	Gravelly sand,   gravelly   coarse sand,   very gravelly	GW-GM, GW,   SP, SP-SM 	A-1     	0     	0-5   	  45-90     	  30-75     	  15-40     	0-10     	0-20     	  NP-3   
		43-80	coarse sand Sand, coarse sand, loamy sand	  SW-SM, SP-SM,   SM   	  A-1, A-2, A-3     	   0     	   0-5     	  85-100     	  75-95     	  40-75     	   5-20     	   0-20     	  NP-3     

Table 23.--Engineering Index Properties--Continued

		<u> </u>	Ī	Classif	ication	Fragi	nents	Pe	rcentage	passir	ng		
Map symbol	Pct. of	Depth	USDA texture	İ		İ		į i	sieve nu	mber		Liquid	Plas-
and	map unit					>10	3-10					limit	ticity
component name			l	Unified	AASHTO	inches	inches	4	10	40	200		index
		In	[			Pct	Pct					Pct	
							ļ	ļ				ļ	
I46A:	   1		 	lar ag ar		   0							
Maddock	1		Loamy fine sand  Loamy sand,	SM, SC-SM	A-2  A-2, A-3	0   0	0   0	•	95-100  95-100		•	•	•
		10-14	loamy fine	5P-5M, 5M 	A-2, A-3 	1	U	100 	   33-100	   60-100	5-35 	U-2U	NP-3 
		i i	sand, fine	! 	! 	! 	l İ	l I	 		l İ	i	! 
		i	sand	İ	İ	i	i	i	i	i	İ	i	i
		14-60	Loamy sand,	SM, SP-SM	A-3, A-2	0	0	100	95-100	60-100	5-35	0-20	NP-3
		j	loamy fine	İ	İ	į	j	į	į	İ	İ	į	j
			sand, fine										
			sand										
Marquette	1	0-6	Loamy sand	SM, SC-SM,	A-2	0	0-5	190-100	85-100	50-75	10-35 	0-20	NP-5
		l l 6-9	  Fine sand,	SP-SM SM, SP-SM	  A-2	I I 0	l l 0-5	   00_100	  85_100	   50-75	  10-35	   0-20	   NTD_5
		0,5	gravelly loamy		<del></del>	i °	0 3 	JO 100	03 100	30 73 	±0 55	1 0 20	1
		i	fine sand,	İ	İ	i	i	i	i	i	İ	i	i
	i	İ	gravelly	İ	İ	i	İ	İ	İ		İ	i	İ
		j	coarse sand	İ	İ	į	j	į	į	İ	İ	į	j
		9-14	Very gravelly	SM, GM, SC,	A-1, A-2	0	0-15	45-85	20-55	10-45	5-35	0-30	NP-10
			fine sandy	GC									
			loam, very									!	
			gravelly loam,			!						!	
		 	very gravelly sandy loam		 		 	 	 		l I	ļ	l i
		   14=60		  GP, SP-SM,	  A-1, A-2, A-3	I I 0	l l 0=10	  40_90	  15-90	l l 0-65	l l 0-30	   0-14	l NP
		14-00	extremely	SP, GP-GM	A-1, A-2, A-3 	1	0-10 	<del>1</del> 0-90	13-90	0-05 	0-30 	   0-14	NF 
		! 	gravelly	51 / 61 611	i I	i İ	i i	i i	 		l I	i	! 
		i	coarse sand to	İ	İ	i	İ	i	i	i	İ	i	İ
		į	fine sand	İ	İ	į	j	į	į	i	İ	İ	j
			[										
Sandberg	1	•		•	A-1, A-2-4	0	•	•	50-95				
		12-19		SM, SP-SM	A-1, A-2, A-3	0	0-5	60-95	50-95	35-70	5-25	0-20	NP-3
		 	coarse sand,		 		 	 	 		l I	ļ	  -
		l I	gravelly coarse sand,	l I	l I	 	l I	l I	 		l I	l i	l I
		! !	loamy sand	 	 	! !	l I	l I	 		l I	i	l I
		   19-29	Gravelly coarse	I SW-SM, SP-SM,	  A-1, A-2, A-3	l   0	l   0-5	ı  50-95	  40-95	l   30-65	   0-10	0-20	NP-3
		i	sand, coarse	SP	, , ,	i	İ	İ				i	İ
		į	sand, sand	İ	İ	į	İ	į	į	i	İ	İ	İ
j		29-80	Gravelly coarse	SP, SP-SM,	A-1, A-2, A-3	j 0	0-5	50-95	40-95	30-65	0-10	0-20	NP-3
			sand, coarse	SW-SM									
		!	sand, sand	!	ļ	!		ļ				ļ.	ļ

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	   Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentag sieve n	_	_	  Liquid	   Plas-
and	map unit		İ	ĺ		>10	3-10	İ				limit	ticity
component name				Unified	AASHTO	inches	inches	4	10	40	200	<u></u>	index
		In				Pct	Pct					Pct	
I47A:	 			 			 	 	 				 
Poppleton	75	0-6	Fine sand	SM, SC-SM	A-2-4	0	0	95-100	95-100	65-80	15-30	0-20	NP-5
		6-9	Fine sand, sand	SM	A-2-4, A-3	0	0	100	100	80-95	5-15	0-20	NP-3
		9-40	Fine sand, sand	SM	A-2-4, A-3	0	0	100	100	80-95	5-15	0-20	NP-3
		40-60	Fine sand, sand	SM	A-2-4, A-3	0	0	100	100	80-95	5-15	0-20	NP-3
Flaming	   12	   0-12	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	  95-100	  65-80	  15-30	0-20	  NP-5
	 	12-17   	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3   	0   	0   	100   	95-100   	50-80   	5-30   	0-20   	NP-3   
	 	17-27   	Fine sand,   loamy sand,   sand	sm, sw-sm   	A-2-4, A-3   	i o I I	   0 	100   	95-100   	50-80   	5-30   	0-20	NP-3   
	     	27-60   	Fine sand,   loamy sand,   sand	SM, SW-SM	A-2-4, A-3   	0   	0     	100   	95-100     	50-80   	5-30   	0-20	NP-3   
Garborg	l 5	l l 0-12	Loamy fine sand	I ISC-SM. SM	  A-2-4	1 0	l l o	1 100	  95-100	I 150-80	  15-35	0-20	  NP-5
Currory			Loamy fine   sand, loamy   sand, fine   sand	SC-SM, SM,	A-2-4   	0	0   0   		95-100     			0-20	
		41-59		  SP-SM, SM,   SC-SM   	  A-3, A-2-4   	0	   0   	   100   	  95-100     	50-80     	5-35   	0-20	NP-3     
	 	59-80   	Fine sand,   loamy sand,   loamy fine   sand	SC-SM, SM,   SP-SM 	A-2-4     	0	   0     	100       	  95-100     	50-80     	5-35     	0-20	NP-3     
Hamar	3	0-12	Loamy fine sand	SC-SM, SM	A-2-4	0	0	100	  95-100	50-80	  15-35	0-20	  NP-5
	     	12-17   	Loamy fine   sand, loamy   sand, fine   sand	SP-SM, SC-SM,   SM 	A-2-4   	0     	0     	100     	95-100     	50-80     	10-35     	0-20   	NP-3   
		17-40	Fine sand,   loamy sand,   loamy fine   sand	SP-SM, SC-SM,   SM 	A-2-4, A-3   	0	   0   	100     	  95-100     	50-80     	5-35	0-20	NP-3   
	<u> </u>	40-47	Loamy fine sand	SC-SM, SM	A-2-4	0	0	100	95-100	50-80	15-35	0-20	NP-5
	j i	47-60	Fine sand,	SM, SP-SM,	A-3, A-2-4	j 0	0	100	95-100	50-80	5-35	0-20	NP-3
	ı i		loamy sand,	SC-SM		İ	l						
	Į į		loamy fine				l					1	
	ı i		sand	I		İ	l						
	l i					1	l		1		1		

Map symbol	   Pct. of	Depth	   USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	e passin umber	ng	  Liquid	   Plas-
and	map unit		ļ	!	ļ	>10	3-10	ļ				limit	
component name				Unified	AASHTO	inches		4	10	40	200	<u> </u>	index
		In				Pct	Pct	ļ		ļ		Pct	ļ
:47A:							l	 	 	  -	l i	ļ	
Radium	   2	0-14	Loamy sand	  SW-SM, SM	  A-2-4	l   0	l l 0	   05_100	   05_100	  50-70	   5_25	   0-20	  MD_5
Radium	<u> </u>			SM, SP-SM, SP						30-70  35-60		0-20	
		14-33	sand, gravelly   loamy coarse   sand				U=3   	/ 3 - 1 0 0     	     	33-00   	3-13   	0-20   	NF-5   
		33-43	Gravelly sand, gravelly coarse sand, very gravelly coarse sand	GW-GM, GW,   SP, SP-SM 	A-1     	0     	0-5   	  45-90     	  30-75     	  15-40   	0-10   	0-20     	NP-3       
		43-80		  SW-SM, SM,   SP-SM 	  A-1, A-2, A-3   	   0 	0-5	  85-100   	  75-95   	  40-75   	   5-20 	0-20   	  NP-3   
Ulen	   2	0-9	Loamy fine sand	l cw	  A-2-4	   0	l I 0	   100	   05 100			   0-20	  ND E
U1en					A-2-4  A-2-4, A-4	0   0		•		•	•	15-25	
		J-42	loam, sandy   loam, loamy   fine sand			°   	°   	     	     	     	     	   	     
į	i i	42-60	Fine sand, sand	SP-SM, SM	A-1, A-2, A-3	0 	0	85-100	75-95 	45-75 	5-25	0-20	NP-3
Maddock	1 1	0-10	Loamy fine sand	SC-SM, SM	  A-2-4	0	0	1 100	  95-100	50-80	  15-35	0-20	  NP-5
				SP-SM, SM   	A-2-4, A-3   	0     	0   	•		  60-100   	•	0-20     	NP-3     
		14-60		  SM, SP-SM   	A-2-4, A-3   	0     	0   	100     	95-100     	60-100   	5-35   	0-20     	NP-3     
[48A:								 	 	 	l I	ļ	
.40A: Radium	l 75 l	0-14	Loamy sand	  SW-SM, SM	  A-2-4	l I 0	l l 0	   05_100	   95_100	  50-70	   5-25	   0-20	   NTD_5
RedTull	, ,3         			SP-SM, SP, SM						35-60   			
		33-43	Gravelly sand,   gravelly   coarse sand,   very gravelly   coarse sand	  SP, GW-GM,   GW, SP-SM 	  A-1   	   0     	0-5	  45-90     	  30-75     	  15-40   	0-10   	0-20     	  NP-3     
		43-80		  SW-SM, SP-SM,   SM 	  A-1, A-2, A-3   	   0 	   0-5 	  85-100   	  75-95   	  40-75   	   5-20 	   0-20 	  NP-3   

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of		USDA texture	Classi	fication	i	ments		rcentag sieve n	_	-	  Liquid	
and	map unit			   Unified	1 22 02200	>10	3-10	   4	l 10	l 40		limit	ticity
component name			1	Unified	AASHTO		inches	4	1 10	1 40	200		index
		In				Pct	Pct					Pct	
148A:	 	l I	 	 	l I	 	l I	 	l I	 			 
Sandberg	l 7	l I 0-12	Loamy sand	SM, SP-SM	  A-1, A-2	I I 0	I I 0-5	I   85_100	  50-95	  40-75	  10-25	0-20	IND-5
banaber 9	, , , , ,		Gravelly loamy		A-1, A-2, A-3				50-95		•	•	
	i		coarse sand,			İ	" "				5 _ 5	0 20	
	i i	i	gravelly	i	İ	i	i	i	i	i	i	i	i
	j i	İ	coarse sand,	İ	j	İ	į	İ	İ	i	İ	İ	i
	j i		loamy sand	ĺ	j	ĺ	ĺ	İ	ĺ	İ	İ	İ	İ
		19-29	Gravelly coarse	SP, SP-SM,	A-1, A-2, A-3	0	0-5	50-95	40-95	30-65	0-10	0-20	NP-3
			sand, coarse	SW-SM									
	!		sand, sand	!		!	!	!		!	!	!	!
		29-80	Gravelly coarse		A-1, A-2, A-3	0	0-5	50-95	40-95	30-65	0-10	0-20	NP-3
			sand, coarse	SW-SM		!	!	!	!	!	!	!	!
			sand, sand	 	l I		 				!	!	
Oylen	5	   0-10	Sandy loam	SC-SM, SM	A-2-4, A-4	   0	   0	100	  85-100	  60-85	25-45	0-20	  NP-5
		10-18	Sandy loam,	SC, SC-SM,	A-4	0	0	100	85-100	60-85	35-60	20-30	5-10
			loam	CL-ML, CL									
		18-38	Coarse sand,	SM, SP-SM	A-2-4, A-3	0	0	90-100	70-100	35-65	5-20	0-20	NP-3
	!		sand, loamy	!		!	!	ļ	ļ	ļ.	!	!	ļ.
			sand										
		38-80 	Sand, coarse	SP, SP-SM	A-1-b, A-2-4,	0	0	190-100	60-100	35-55	3-10	0-20	NP-3
	 	l I	sand, gravelly coarse sand	 	A-3	 	l I	 	l I	 			 
	! !		Coarse saild	! 		! !	! !	! !		! !	1	1	! !
Flaming	4	0-12	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	95-100	65-80	15-30	0-20	NP-5
	j i	12-17	Fine sand,	SM, SW-SM	A-2-4, A-3	0	0	100	95-100	50-80	5-30	0-20	NP-3
			loamy sand,										
			sand										
		17-27	Fine sand,	SM, SW-SM	A-2-4, A-3	0	0	100	95-100	50-80	5-30	0-20	NP-3
	!		loamy sand,	!		!	!	!	ļ	!	!	!	!
			sand										
		27-60	Fine sand,	SW-SM, SM	A-2-4, A-3	0	0	100	95-100	50-80	5-30	0-20	NP-3
	 		loamy sand,	l I		 	l I	1					
	 	l I		 		I I	I I	! !		 			 
	i l	l	I	I	I	I	I	I	I	I	I	I	I

Map symbol and	   Pct. of     map unit	Depth	USDA texture	Classif 	ication  	Fragi     >10	ments    3-10	•	rcentag	_	_	  Liquid  limit	
component name			i I	Unified	AASHTO	inches	•	l 4	l 10	l 40	l 200		index
Compositorio riamo		In	!			Pct	Pct	<u> </u>	<u> </u>	!		Pct	
I48A:	 		 	 	 	 	 	 	 	 			 
Garborg	3           		Loamy fine sand  Loamy fine   sand, loamy   sand, fine   sand	SM, SC-SM SC-SM, SM, SP-SM	A-2-4  A-2-4   	0   0     	0   0   	100   100   			15-35  10-35   		NP-5  NP-3   
	 	41-59	Fine sand,   loamy sand,   loamy fine   sand	SM, SP-SM,   SC-SM   	A-3, A-2-4     	0     	0   	100     	95-100     	50-80     	5-35     	0-20   	NP-3     
		59-80		SP-SM, SC-SM, SM 	A-2-4       	0       	0       	100       	95-100       	50-80       	5-35	0-20	NP-3     
Hangaard	3	0-10	Sandy loam	sm	A-2-4, A-4	0	0-3	  95-100	  80-100	50-75	15-45	0-25	  NP-10
	 		coarse sandy loam, loamy coarse sand	SP-SM, SM     	A-1, A-2-4,   A-3 	0     	   	95-100     	   	:     	   	   	     
	 	15-80	Gravelly coarse   sand, gravelly   sand, coarse   sand	•	A-1, A-2, A-3     	0     	0-3     	70-95       	55-90       	30-60       	0-10     	0-20     	NP-3     
Hamar	2	0-12	Loamy fine sand	SM, SC-SM	  A-2-4	0	0	1 100	  95-100	  50-80	15-35	0-20	  NP-5
	 	12-17	Loamy fine sand, loamy sand, fine sand	SP-SM, SM, SC-SM	A-2-4     	0     	0     	100     	95-100     	50-80     	10-35     	0-20	NP-3     
	 	17-40	Fine sand,   loamy sand,   loamy fine   sand	SC-SM, SM,   SP-SM 	A-2-4, A-3     	0     	0   	100     	95-100     	50-80     	5-35     	0-20   	NP-3     
	l İ		Loamy fine sand		A-2-4	0	0				15-35		
	 	47-60	Fine sand,   loamy sand,   loamy fine   sand	SP-SM, SM,   SC-SM   	A-3, A-2-4     	0     	0     	100       	95-100       	50-80     	5-35     	0-20     	NP-3     
Poppleton	   1	0-6	  Fine sand	  sc-sm, sm	  A-2-4	   0	l I 0	  95-100	  95-100	  65-80	  15-30	   0-20	  NP-5
= <b>=</b>	j i	6-9	Fine sand, sand		A-2-4, A-3	0	0	100				0-20	
		0 40	inter-conditions	Lase	1 2 2 2 2 2	i o		1 100	1 100	100 05	1 - 1-	i 0 00	1

| 9-40 | Fine sand, sand | SM | 40-60 | Fine sand, sand | SM |

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Frag	ments		rcentag sieve n	_	-	  Liquid	   Plas-
and	map unit	_	İ		I	>10	3-10	i				limit	ticity
component name	i i		İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
		In	Ī		I	Pct	Pct			1		Pct	l
			I		[	l		[				[	[
I50A:					!		ļ	ļ	!	ļ	!	!	ļ
Reiner	70		Fine sandy loam		A-4	0						15-35	
		7-17   	Clay loam, loam, sandy clay loam	  -  CL	A-6   	0   	0-3   	85-100   	75-100   	60-95   	55-80   	25-40   	10-20   
	i i	17-35	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
İ	į į	35-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Smiley	   12	0-12	  Loam	  CL, CL-ML, ML		   0-1	   0-2	195_100	   05_100	170-95	  50-80	115_25	   2-12
Smiley	±2   				A-4, A-0	0-1   0-1	1					25-40	1
		12-19	loam, silty   clay loam			   	0-3   	   	   	   			   
	i i	19-42	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		42-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Reiner, very			 	l I	 	 						!	
cobbly		0-7	  Fine sandy loam	I Isc-sw.sw	  A-4	l   1-3	l l 1-10	I   85-100	I 185-95	l 165-85	1   35-50	115-35	I  ND-10
					A-6 	0   0 						25-40 	
	i	17-35	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
j	į į		Clay loam, loam		A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Linveldt	   5	0-9	  Fine sandy loam	  ac=am=am=	  A-2-4, A-4	   0	   0-5	  95-100	   05_100	  65-90	120-50	0-25	  NP-10
HINVEIGC	, , , , , , , , , , , , , , , , , , ,		!		A-2-4, A-4	0   0-1			•		25-75	1 .	5-10
				SC-SM, CL		U-1   	0-3   	   	   	   			J-10   
		16-29	Loamy sand,   sand, coarse   sand	SC-SM, SP-SM, SM	A-1, A-2, A-3   	0-1   	0-5   	  65-100   	  55-100   	30-80   	5-30   	0-20	NP-3   
			Clay loam, loam		A-4, A-6	0-1					50-75		5-20
		45-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95 	75-90	50-75	25-40	5-20
Eckvoll	3	0-9	  Loamy fine sand	  SM, SC-SM	  A-2	   0-1	   0-2	  90-100	  85-100	  65-80	  15-30	0-20	  NP-5
		9-25	Fine sand,   sand, loamy   fine sand	SP-SM, SM	A-1, A-2, A-3   	0   	0-2   	95-100   	95-100   	45-75   	5-30   	0-20	NP-3   
		25-32	Clay loam,   sandy clay   loam, loam	SC, CL	  A-6   	0   	0-5   	90-100   	75-100   	60-95   	45-75 	25-40   	10-20   
j	į į	32-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
İ	l İ		I		I	l		1					1

Map symbol	   Pct. of	Depth	   USDA texture	Classif	cation	Frag	ments	•	centage sieve n	_	_	  Liquid	   Plas-
and	map unit					>10	3-10					limit	ticity
component name	ll		L	Unified	AASHTO	inches	inches	4	10	40	200	L	index
		In		ļ		Pct	Pct	ļ				Pct	
I50A:	 		 	 	 	 	 	 		 	 	 	 
Kratka	3	0-11	Fine sandy loam	SC-SM, SM	A-4	0	0	95 <b>-</b> 100	90-100	50-80	35-50	0-25	NP-10
	 	11-18	Loamy sand, sand, loamy fine sand	SW-SM, SP-SM,   SM	A-2-4, A-3   	0   	   0 	  95-100   	90-100 	50-80   	5-35   	0-20	NP-3   
	i i I I	18-25	Loamy sand, sand, fine sand	SP-SM, SM, SW-SM	A-2-4, A-2,   A-3 	0   	0 	  95-100   	90-100 	50-80   	5-35   	0-20	NP-3   
	į į	25-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
I51A:	 		 	 	 	 	 	 		 			 
Reiner	65	0-7	Loamy fine sand	SM	A-2	0	0-5	90-100	85-95	60-80	15-30	0-20	NP-5
	 	7-17	Clay loam,   loam, sandy   clay loam	  -  CT	A-6   	0   	0-3   	  85-100   	75-100   	  60-95   	55-80   	25-40   	10-20   
		17-35	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	35-80	Clay loam, loam	CL, CL-ML	A-6, A-4 	0-1 	0-5 	95 <b>-</b> 100	85 <b>-</b> 95 	75-90 	50 <b>-</b> 75	25-40 	5-20 
Smiley	9	0-12	Loam	CL, CL-ML, ML	A-4, A-6	0-1		  95-100					2-12
	 	12-19	Clay loam,   loam, silty   clay loam	    CT	A-6   	0-1   	0-3   	95-100   	85-100   	70-95   	50-80   	25-40   	10-20   
	i i	19-42	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	42-80	Clay loam, loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Reiner fine	i i		i	İ	j	İ	i	i	İ	İ	i	i	İ
sandy loam	8	0-7	Fine sandy loam	•	A-4	0		85-100					NP-10
	       	7-17	Clay loam,   loam, sandy   clay loam	  -  CL	A-6   	0   	0-3   	85-100   	75-100   	60-95   	55-80   	25-40   	10-20   
		17-35	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	35-80	Clay loam, loam	CL, CL-ML	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Linveldt	7	0-9	Fine sandy loam	SM, SC-SM	A-2-4, A-4	0	0-5	95-100	95-100	65-90	20-50	0-25	NP-10
	       	9-16	Sandy clay   loam, loam,   sandy loam	SC-SM, SC,   CL-ML, CL 	A-2-4, A-4   	0-1   	0-5   	95-100   	80-100   	50-90   	25-75   	20-30   	5-10   
	 	16-29	Loamy sand, sand, sand, coarse sand	SP-SM, SM, SC-SM	A-1, A-2, A-3   	0-1   	0-5   	65-100   	55-100   	30-80   	5-30   	0-20	NP-3   
	ı İ	29-45	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		45-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragm		•	rcentag sieve n	e passinumber	ng	  Liquid	
and component name	map unit		 	Unified	AASHTO	>10    inches	3-10	   4	l 10	l 40		limit	ticity  index
Component name	I	In	L	Unillea	AASHIO	Pct	Pct	<del>*</del>	I 10	] <del>1</del> 0	<u>2</u> 00 	l   Pct	I
			! 		İ	100		<u> </u>	<u> </u>		<u> </u>		<u> </u>
I51A:	i		İ	į	j	i i		İ	İ	į	į	į	į
Kratka	5		Fine sandy loam	SC-SM, SM	A-4	0	0	95-100	90-100	50-80	35-50	0-25	NP-10
		11-18	Loamy sand,   sand, loamy   fine sand	SW-SM, SP-SM,	A-2-4, A-3 	0	0	95-100 	90-100 	50-80 	5-35 	0-20 	NP-3 
		18-25	!	SW-SM, SM,	  A-2-4, A-2,   A-3 	0	0	  95-100   	  90-100   	  50-80   	   5-35   	   0-20 	  NP-3 
	i i	25-80	Loam, clay loam	CL-ML, CL	  A-6, A-4 	   0-1   	0-5	  95-100 	  85-95 	  75-90 	  50-75 	  25-40 	5-20
Eckvoll	3	0-9	Loamy fine sand	SM, SC-SM	A-2	   0-1	0-2	  90-100	  85-100	65-80	  15-30	0-20	NP-5
	 	9-25	Fine sand,   sand, loamy   fine sand	SP-SM, SM	A-1, A-2, A-3   	0        	0-2	  95-100   	  95-100   	45-75   	5-30   	0-20   	NP-3   
	 	25-32	Clay loam,   sandy clay   loam, loam	CL, SC	A-6   	0       	0-5	90-100   	75-100   	60-95   	45-75   	25-40	10-20   
	i i	32-80	Loam, clay loam	CL-ML, CL	A-6, A-4 	0-1     0-1	0-5	95-100 	85-95 	75-90 	50-75 	  25-40 	5-20 
Reiner, very	İ		İ		İ	i i		İ	İ	į	İ	į	İ
cobbly	3		Fine sandy loam	SC-SM, SM	A-4	1-3						15-35	
	       	7-17	Clay loam,   loam, sandy   clay loam	 	A-6   	0       	0-3	85-100   	75-100   	60-95   	55-80   	25-40   	10-20   
	i	17-35	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	İ	35-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
I52A:													
Reis	   55	0-9	   Clav	CL, CH	  A-7	   0-1	0-1	   95_100	   95_100	   90_100	   70_95	  45-70	  20-50
	33         			CL, CH	A-7 	0 1     0-1   						45-75 	
	i i	17-33	Clay, silty   clay	CH, CL	  A-7 	   0-1   	0-3	95-100 	95-100 	90-100 	70-95 	  45-75 	20-50 
		33-42	Clay, silty	CL, CH	A-7 	0-1   	0-3	95-100	95-100 	90-100	70-95 	45-75 	20-50
	 	42-60	Silty clay,   clay, silty   clay loam	CH	A-7   	0-1       	0-3	95-100   	95-100   	90-100   	75-95   	40-70   	20-45   
		60-80	Silty clay,   clay, silty   clay loam	CH	<b>A-7</b>   	0-1   	0-3	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     

Map symbol	   Pct. of	Depth	USDA texture	Classi:	fication	Fragi	ments	•	rcentag	e passin umber	ng	  Liquid	   Plas-
and	map unit	i	i		1	>10	3-10	i				limit	ticity
component name	i - i		i	Unified	AASHTO	inches	inches	4	10	40	200	ï	index
		In	ļ	<u> </u>	<u> </u>	Pct	Pct	<u> </u>				Pct	<u> </u>
I52A:	 	 	 	 			 	 	 	 	 		 
Clearwater	30	0-8	Clay	CL, CH	A-7	0-1	0-1	95-100	95-100	90-100	70-95	45-70	20-50
		8-35   	Clay, silty   clay, silty   clay loam	CL, CH   	A-7   	0-1   	0-3   	95-100   	95-100   	90-100   	70-95   	40-70   	20-45   
		35-80		  СН 	A-7 	0-1	   0-3   	  95-100     	  95-100   	  90-100   	  75-95   	40-70   	  20-45   
Clearwater, very		İ	İ	İ	i			 	 		<u> </u>		 
cobbly	5	0-8	Clay	CL, CH	A-7	1-3						45-70	
	 	8-35   	Clay, silty clay, silty clay loam	CL, CH   	A-7   	0-1   	0-3   	95-100   	95-100   	90-100   	70-95   	40-70   	20-45   
		35-80		CH 	A-7 	0-1	0-3   	  95-100   	  95-100   	90-100   	  75-95   	40-70	  20-45   
Clearwater,	 	 	 	 			 	 	 		 		 
depressional	3	0-8	Mucky clay loam	CL	A-6	0	0-3	95-100	95-100	80-95	60-85	25-40	10-20
		8-35   	Clay, silty   clay, silty   clay loam	CH, CL   	A-7   	0-1   	0-1   	95-100   	95-100   	90-100   	70-95   	40-70   	20-45   
		35-80 		  CH 	A-7 	0-1	0-3   	  95-100   	  95-100   	90-100   	  75-95   	40-70	  20-45   
Espelie	3	   0-9 	  Fine sandy loam 	  SM, CL, ML,   SC	  A-2-4, A-4 	   0 	   0 	  95-100 	  85-100 	  60-85 	  30-65 	   0-25 	  NP-10 
		9-24   	Loamy sand, loamy fine sand, fine sand	sm, sp-sm     	A-2, A-3,   A-1, A-2-4	0     	0-5     	85-100     	  60-100     	30-80     	5-40     	0-20	NP-3     
		24-80   	Silty clay,   clay, silty   clay loam	CH     	A-7   	0-1   	0-3     	95-100     	  95-100     	90-100     	75-95       	40-70   	20-45     
Hattie	3	0-8	Clay	CH, CL	  A-7	0-1	0-1	95-100	  95-100	90-100	70-95	45-70	20-50
		8-22   	Silty clay,   clay, silty   clay loam	Сн   	A-7   	0-1   	0-3   	95-100   	95-100   	90-100   	75-95   	40-70   	20-45   
		22-80		  СН 	A-7 	0-1	   0-3   	95-100     	95-100     	90-100     	75-95     	40-70   	20-45     

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments		rcentago sieve n	_	ng	  Liquid	   Plas-
and	map unit				1	>10	3-10					limit	ticity
component name			L	Unified	AASHTO	inches	inches	4	10	40	200	L	index
		In		<u> </u>	ļ	Pct	Pct	ļ	ļ			Pct	
I52A:	 			 	 		 	 	 	 	 		 
Wyandotte	1	0-8	Clay loam	CL	A-6	0-1	0-3	95-100	85-100	70-95	50-70	30-40	10-15
	j j	8-15	Loam, sandy	CL-ML, CL	A-4	j 0	0-3	95-100	80-95	60-90	50-65	20-35	5-10
	į į		clay loam	ĺ	ĺ	İ	İ	İ	İ	ĺ	İ	İ	İ
		15-34	Gravelly loamy	SP-SM, GP-GM,	A-1	0	2-5	20-65	15-45	5-40	0-10	0-20	NP-3
			coarse sand,	GP, SP	[								
			gravelly sand,									!	
	!!!		very gravelly		!	!	ļ	ļ	ļ	!	ļ	!	ļ
			loamy coarse										
		34 60	sand  Silty clay,	  CH	  A-7	   0-1	l l 0-3	105 100	   05 100	   00 100		  40-70	100 45
	 	34-60	clay, silty	I CH	A- /	1 0-1	U-3	1 132-T00	  32-T00	  90-100	/5-95 	40-70 	20-45 
	: :		clay, sirty	 		i i	l I	 	l I	l I	l I	l I	l I
	i		Clay Ioam	! 	! 	1	i i	i	İ	i i	i	¦	i
I53A:	i i		İ	İ	į	i	į	i	i	i	İ	i	İ
Roliss	75	0-14	1	CL, CL-ML	A-4, A-6	0-1			80-100			20-40	5-20
	!!!		Loam, clay loam		A-4, A-6	0-1			85-95			25-40	5-20
	 	20-80	Loam, clay loam	CL, CL-ML	A-6, A-4 	0-1 	0-5 	95-100 	85 <b>-</b> 95 	75-90 	50-75 	25-40	5-20 
Kratka	8	0-11	Fine sandy loam	SM, SC-SM	A-4	j 0	,   0		90-100		35-50	0-25	NP-10
	!!!	11-18	Loamy sand,	SM, SP-SM,	A-2-4, A-3	0	0	95-100	90-100	50-80	5-35	0-20	NP-3
	!!!		sand, loamy	SW-SM			ļ	ļ		!	ļ	!	ļ
	!!!	10.05	fine sand	law an av		   0	l I 0					   0-20	
		18-25	Loamy sand,	SM, SP-SM,	A-2-4, A-2,   A-3	0	0	195-100	90-100	50-80 	5-35	0-20	INP-3
			sand, line	5W-5M	A-3 		! 	i i	I I	l İ	! 		! 
	į	25-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Roliss, very	 			 	 		 	 	 	 	 		 
cobbly	7	0-14	Loam	CL, CL-ML	A-4, A-6	1-3	1-10	95-100	80-100	80-100	60-90	20-40	5-20
		14-20	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Kittson	l 5 I	0-10	Loam	CL-ML, CL	  A-4, A-6	l l 0	I I 0	   100	  95-100	l   85-95	  50-75	  20-35	   5-15
	i i	10-17	Loam, fine	CL, SC	A-4	0	0-5		65-100				5-10
	j i		sandy loam,	İ	İ	i	i	İ	į	į	į	i	į
	!!!		sandy loam	!	!		!			!		!	
	<u> </u>		Clay loam, loam		A-4, A-6	0-1			85-95			•	5-20
	 	36-60	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20
Roliss,	! ! 			 			! 			 			
depressional	3	0-14	Loam	CL-ML, CL	A-4, A-6	0-1	0-1	95-100	85-95	80-95	60-85	20-40	5-20
		14-20	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1			85-95			•	5-20
		20-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
depressionar	, , , , , , , , , , , , , , , , , , ,	14-20	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	0

Map symbol	   Pct. of	Donth	USDA texture	Classif	ication	Frag	ments		rcentago sieve n	_	ng	  Liquid	   Dlag
map symbol and	map unit	рерсп	USDA texture	l	I	   >10	3-10	;	sieve n	umber		Liquid  limit	
component name	map unic			   Unified	I I AASHTO	1	3-10  inches	   4	l 10	l 40	1 200	.  <b></b>	index
COMPONENT NAME		In	1	l onlined	I AADIIIO	Pct	Pct	1 -	1	1 -10	1 200	Pct	I
		111		 	I I	l FCC	l FCC	l I	I I	l I	I I	l FCC	l I
I53A:			! 	! 	! 	i i	! 	i i	i i	! 	! 		! 
Smiley	1 2 1	0-12	Loam	CL, CL-ML, ML	  A-4, A-6	0-1	0-2	95-100	  85-100	  70-95	  50-80	15-35	   2-12
•	i				A-6	0-1						25-40	  10-20
	j j		loam, silty	İ	İ	İ	İ	İ	İ	į	İ	İ	İ
	İ		clay loam	ĺ	ĺ	İ	İ	ĺ	İ	ĺ	ĺ	İ	ĺ
		19-42	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		42-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
							ļ		ļ	!	ļ	!	ļ
I54A:										 			
Roliss, depressional	l 80 l	0-14	  Toam	CL, CL-ML	  A-4, A-6	   0-1	   0-1	  95-100	   05_05	   00_05	  60_85	120-40	l   5-20
depressionar	60   		Loam, clay loam		A-4, A-6	0-1		95-100					5-20   5-20
	i		Loam, clay loam		A-6, A-4	0-1	•	95-100		•		•	5-20
	i			İ	İ	i	i	i	i	i	İ	i	i
Roliss	12	0-14	Loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	80-100	80-100	60-90	20-40	5-20
		14-20	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	_ !		l .	 								ļ	
Hamre	5	0-13		1	A-8	0	0	100	100				
		13-18	Loam, clay   loam, silt   loam	CL-ML, CL   	A-4, A-6   	0-1   	0-3   	90-100   	    80-100	70-100   	50-90   	25-40   	5-20   
	i i	18-71	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	İ	71-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Kratka	3		Fine sandy loam  Loamy sand,	SM, SC-SM  SW-SM, SP-SM,	A-4	0   0		95-100  95-100					NP-10
		11-10	sand, loamy	SM	A-2-4, A-3 	1	1	193-100	  90-100	30-80 	5-35 	U-2U	NP-3
			fine sand	l Dir	! 	İ	! 	i i	i i	! 	! 	i	! 
	i	18-25		SP-SM, SM,	  A-2, A-2-4,	0	0	95-100	90-100	  50-80	5-35	0-20	  NP-3
	j j		sand, fine	SW-SM	A-3	İ	İ	İ	İ	į	İ	İ	İ
	i i		sand	ĺ	ĺ	Ì	İ	ĺ	ĺ	ĺ	ĺ	İ	ĺ
		25-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
			!			ļ	ļ	ļ	!	!	!	ļ	!
I55A: Rosewood	   75	0-8		law ag ag aw				105 100	 				
Rosewood	75   		Fine sandy loam  Fine sandy		A-2-4, A-4  A-2-4, A-4	0   0	0   0					0-25 20-30	
		0-10	loam, sandy	SM, SC-SM	A-2-4, A-4 	1	1	193-100	  95-100	65 <b>-</b> 65	13-30	20-30 	INP-10
	i		loam, loamy	! 	! 	i	i	i	i	! 	i	i	i
	i		fine sand	i I	i I	i	i	i	i		İ	i	İ
	j	18-80	Fine sand, sand	SM, SP-SM	A-1, A-2-4,	0	0	85-100	75 <b>-1</b> 00	45-75	5-35	0-20	NP-3
	i i		İ	İ	A-3	İ	İ	İ	İ	İ	İ	İ	İ

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	i	ments	•	_	e passi: umber	ng	  Liquid	•
and	map unit				<u> </u>	>10	3-10	ļ				limit	
component name			L	Unified	AASHTO		inches	4	10	40	200	L	index
		In				Pct	Pct					Pct	
I55A:			 	 	 	l I	l I	l I	l I	l I	l I	 	l I
Ulen	10	0-9	Fine sandy loam	ı İsm. sc-sm. sc	  A-4	l I 0	i I 0	1 100	100	80-100	  35-50	0-25	NP-10
					A-2-4, A-4   	0     	0       		•	•		15-25     	
	i i	42-60	Fine sand, sand	SP-SM, SM	  A-1, A-2, A-3 	0 	0 	85-100 	75-95 	45-75 	5-25 	0-20	NP-3 
Hamar	6	0-12	Loamy fine sand	SC-SM, SM	A-2-4	0	0	100	  95-100	50-80	15-35	0-20	NP-5
		12-17	Loamy fine sand, loamy sand, fine sand	SC-SM, SP-SM,   SM 	  A-2-4   	0     	0     	100     	95-100     	50-80     	10-35     	0-20     	NP-3     
	 	17-40	Fine sand,   loamy sand,   loamy fine   sand	SP-SM, SM,   SC-SM   	A-2-4, A-3     	0     	0     	100     	95-100     	50-80     	5-35     	0-20     	NP-3     
		40-47	Loamy fine sand	SC-SM, SM	A-2-4	0	0	100	95-100	50-80	15-35	0-20	NP-5
		47-60	Fine sand,   loamy sand,   loamy fine   sand	SC-SM, SP-SM,   SM   	A-3, A-2-4       	0       	0       	100       	95-100       	50-80       	5-35       	0-20       	NP-3       
Rosewood,	i		į	İ	j	i	į	İ	i	i	i	i	i
depressional	3	0-8	Fine sandy loam	SM, SC, SC-SM	A-2-4, A-4	0	0	95-100	95-100	70-85	30-50	0-25	NP-10
	 	8-18	Fine sandy   loam, sandy   loam, loamy   fine sand	SC-SM, SM     	A-2-4, A-4   	0     	0     	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
	       	18-80	Fine sand, sand 	SM, SP-SM   	A-1, A-2-4,   A-3 	0   	0   	85-100   	75-100   	45-75   	5-35   	0-20	NP-3   
Syrene	3	0-9	Sandy loam	SC-SM, SM	A-4	0-1	0-3	95-100	  80-100	60-75	20-45	0-25	NP-10
	 	9-17	Loam, sandy loam, sandy clay loam	SC, CL, SC-SM, CL-ML	A-4   	   0 	0-5   	  95-100   	85-100   	50-75   	  15-65   	20-35   	5-15   
			loamy fine sand to gravelly coarse sand	SP, SP-SM       	A-1, A-2, A-3       	0-1     	     	     	     	30-60       	     	0-20       	NP-3       
		27-60	Stratified   loamy fine   sand to   gravelly   coarse sand	SP, SP-SM         	A-1, A-2, A-3         	0-1       	0-5         	70-95         	55-80         	30-60         	0-10         	0-20         	NP-3         

Table 23.--Engineering Index Properties--Continued

				Classif	ication	Fragi	ments	•	rcentag	_	ng		
Map symbol	Pct. of	Depth	USDA texture					'	sieve n	umber		Liquid	
and	map unit			   Unified	   AASHTO	>10	3-10	   4	l 10	l 40	l 200	limit	
component name				Unified	AASHTO		inches	4	1 10	40	200		index
		In				Pct	Pct				!	Pct	ļ
I55A:			l I	l I	l I	l I	 	 	l I	 	 		 
Karlsruhe		0-15	  Sandy loam	I  SC-SM, SC, SM	   1 <u>  1</u>	I I 0	l l 0-3	  95-100	I   85-100	I  55-90	l  15-50	I I 0-25	  NP-10
Mar Ibr and	-			SM, SC, SC-SM				95-100				•	NP-10
	i i		loamy sand		,, 	i							
	i i	30-60	Coarse sand,	GP, SP-SM,	A-1, A-2, A-3	0	0-5	45-90	30-80	20-70	0-15	0-20	NP-1
	i i		gravelly	GP-GM, SM,	İ	į	İ	į	j	İ	į	İ	İ
			coarse sand,	SP									
			gravelly sand										
							!			!		!	
Strathcona	1	0-10	Fine sandy loam		A-4	0	0	95-100	90-100	70-85	40-55	0-25	NP-10
		10 17	  Fine sandy	ML, CL-ML SC-SM, SM	  A-2-4, A-4	l I o	l I o	105 100	   05 100	 		  20-30	   NTD 10
		10-17	loam, sandy	SC-SM, SM	A-2-4, A-4 	l O	1	193-100	   33-100	05-05 	1 1 2 - 3 0	20-30 	INP-10
			loam, loamy	! 	I I	! !	! !	! !	! !	! !	¦	1	
	i		fine sand	! 	l İ	i	! 	i	i i	! 	i	i	i
	i i	17-28	Sand, fine	SP-SM, SM	A-2-4, A-3,	0	0-1	95-100	90-100	50-80	5-30	0-20	NP-3
	i i		sand, loamy	İ	A-2	į	į	İ	į	į	İ	İ	İ
	i i		fine sand	İ	İ	į	İ	į	j	İ	į	İ	İ
		28-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Thiefriver		0-12	  Fine sandy loam	l CtMT., MT.,	  A-4	l l 0	I I 0	  95-100	  80-100	l   70-90	  35-55	l l 0-25	  NP-10
	i - i			SC-SM, SM	 	İ	İ					0 20	
	i i	12-23	Fine sandy	SM, SC-SM	A-2-4, A-4	0	0	95-100	95-100	65-85	15-50	20-30	NP-10
	i i		loam, sandy	İ	İ	į	į	İ	į	į	İ	İ	İ
	İ		loam, loamy	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ	ĺ
			fine sand										
		23-32		SM, SP-SM	A-2-4, A-2,	0	0-3	90-100	80-100	50-80	5-35	0-20	NP-3
			loamy fine		A-3		!			!		!	
			sand, loamy			!	!	ļ	!	!	ļ	!	ļ
		20.00	sand										
		32-80	Silty clay,	CH	A-7	0-1	0-3	95-100	1 132-T00	1   AO-TOO	75 <b>-</b> 95	40-70	∠0-45
			clay, silty clay loam	I I	I I	l I	 	 	I I	I I	 		l I
			Ciay IOam	I I	I I	l I	I I	 	I I	 	1		

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentago sieve n	_	ng	  Liquid	   Plas-
and	map unit					>10	3-10					limit	ticity
component name			L	Unified	AASHTO	inches	inches	4	10	40	200		index
		In	ļ.	l	!	Pct	Pct	!	ļ.	ļ	ļ.	Pct	ļ
I57B:	 		 	 	 	 	 	 	 	 	l I	1	 
Sandberg	l 50 I	0-12	Loamy sand	SM, SP-SM	A-1, A-2-4	0	l   0-5	  85-100	  50-95	  40-75	110-25	0-20	NP-5
Summery			Gravelly loamy   coarse sand,   gravelly   coarse sand,   loamy sand   loamy sand		A-1, A-2, A-3   				50-95     	•			
	 	19-29	Gravelly coarse   sand, coarse   sand, sand	  SP, SP-SM,   SW-SM 	  A-1, A-2, A-3   	   0 	   0-5   	  50-95   	  40-95   	  30-65   	   0-10   	   0-20 	  NP-3   
		29-80	Gravelly coarse sand, coarse sand, sand	SP, SP-SM,   SW-SM 	  A-1, A-2, A-3   	0     	0-5     	50-95     	40-95     	30-65     	0-10     	0-20   	NP-3     
Radium	25	0-14	Loamy sand	SM, SW-SM	A-2-4	0	,   0	95-100	  95-100	  50-70	5-25	0-20	NP-5
	 	14-33	Sand, loamy   sand, gravelly   loamy coarse   sand		  A-1, A-2, A-3   	0     	0-5     	75-100       	  65-95     	35-60     	3-15     	0-20     	NP-3     
	 	33-43	Gravelly sand, gravelly coarse sand, very gravelly coarse sand	SP, SP-SM, GW, GW-GM	<b>a-1</b>       	0         	0-5       	45-90       	30-75         	15-40       	0-10       	0-20       	NP - 3       
		43-80	Sand, coarse   sand, loamy   sand	SM, SW-SM, SP-SM	  A-1, A-2, A-3   	0     	0-5     	85-100     	  75-95     	40-75     	5-20   	0-20   	NP-3     
Sioux	8	0-5	Sandy loam	SM	  A-4	0	0-5	95-100	80-100	  60-85	35-45	0-25	  NP-10
		5-8	Gravelly loam, gravelly sandy loam, gravelly loamy sand	İ	  A-1, A-2, A-4   	0     	•		50-80     	•			NP-5   
		8-60	Extremely   gravelly sand,   very gravelly   loamy sand,   very gravelly   sand	SP-SM, SP,	A-1, A-2         	0           	0-5           	25-75             	20-60           	5-35           	0-25           	0-25           	NP-5           

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	i	ments	•	rcentag sieve n	_	_	  Liquid	•
and	map unit					>10	3-10					limit	ticity
component name				Unified	AASHTO	inches		4	10	40	200	<u> </u>	index
	İ	In	l I	 	l I	Pct	Pct I	 	 			Pct	
I57B:				İ	i	<u> </u>	! 	i	i	i	i	i	i
Oylen	7	0-10	Sandy loam	SC-SM, SM	A-2-4, A-4	0	0	100	85-100	60-85	25-45	0-20	NP-5
		10-18		SC-SM, SC,	A-4	0	0	100	85-100	60-85	35-60	20-30	5-10
		   10 20	loam  Coarse sand,	CL-ML, CL SP-SM, SM	  A-2-4, A-3	   0	l I o	100 100	  70-100	125 65	   5-20	   0-20	  NP-3
	   	10-36   	loamy sand,	5F-5M, 5M   	A-2-4, A-3   	0   	<sup>0</sup>   	   	70-100   		5-20	0-20   	NP=3   
		38-80	Coarse sand,	SP, SP-SM	A-1-b, A-2-4,	0	0	90-100	60-100	35-55	3-10	0-20	NP-3
	   		gravelly coarse sand, sand	 	A-3	 	   	 	 	 		 	
	 		sand	 		 	l I	 	 	l I			
Flaming	5	0-12	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	  95-100	65-80	15-30	0-20	NP-5
	   	12-17 	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3	0   	0   	100   	95-100   	50-80 	5-30 	0-20	NP-3 
	   	   17-27 	Fine sand,   loamy sand,   sand	  SM, SW-SM 	  A-2-4, A-3 	0	   0 	   100 	  95-100 	  50-80 	5-30	0-20	NP-3
		27-60 	Fine sand,   loamy sand,   sand	  SM, SW-SM   	  A-2-4, A-3 	   0 	   0 	   100   	  95-100   	  50-80   	5-30	0-20	NP-3 
Garborg	l l 5	   0-12	Loamy fine sand	  SC-SM SM	  A-2-4	   0	l I 0	   100	  95-100	  50-80	  15-35	   0-20	  NP-5
041201g			Loamy fine   sand, loamy   sand, fine   sand	SC-SM, SP-SM,   SM 		0   0   	0   0 		95-100     			0-20	
		41-59	Fine sand,   loamy sand,   loamy fine   sand	  SM, SC-SM,   SP-SM 	A-3, A-2-4   	   0   	   0   	   100   	  95-100     	  50-80   	5-35	0-20	NP-3   
		59-80	Fine sand,   loamy sand,   loamy fine   sand	  SC-SM, SM,   SP-SM   	  A-2-4     	   0     	   0   	   100     	  95-100     	  50-80     	5-35     	0-20       	NP-3     
I58A:				İ	i	i		<u> </u>	<u> </u>	i	i	i	i
Seelyeville	90   			PT   PT   P	A-8  A-8 	0   0 	0   0   0	100   100 	100   100 	   	   	   	   
G-13												ļ	
Cathro	] 3 I	0-11   11-23	'	PT  PT	A-8  A-8	0   0	0   0	100   100	100   100				
	   		Loam, clay loam	1	A-6, A-4 	0   0-1 	0   0-5 		100  85-95 	  75-90 	50-75	  25-40 	5-20 

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentage sieve n	e passi: umber	ng	  Liquid	   Plas-
and	map unit		[			>10	3-10					limit	ticity
component name			L	Unified	AASHTO	inches	inches	4	10	40	200		index
		In	ļ.	ļ	!	Pct	Pct	!		ļ	ļ	Pct	!
I58A:			l I	 	 	 	 	 	l I	 	 	 	 
Dora	3 1	0-12	Mucky peat	  PT	I   A-8	0	l I 0	100	l 100	i		i	
2024		12-32		1	A-8	0	l 0	100	100	i		i	
	i		Mucky silty	1	A-6	1 0	l 0	100	100	  90-100	l 85-95	25-40	1
			clay loam, mucky silt	 				 			   	   	   
		36-60	Silty clay	CH, CL	  A-7	I 0	l l 0	   100	l l 100	   00_100	   00_100	  45-80	   35_50
		30-00	loam, silty		A- / 	0	l o	100 	100 	 	 	   <del>1</del> 3-80	33-30 
	į		clay, clay	į	İ	į	į	į	į	į	į	į	į
Markey	3	0-32	  Muck	  PT	  A-8	   0	l l 0	   100	   100	 	 	 	 
_	i	32-60	Fine sand,	SP-SM, SP, SM	A-2, A-3,	0	0	100	75-100	60-75	0-20	0-20	NP-3
			loamy sand,	 	A-2-4 		   	 	   	   	   	   	 
Berner	1	0-28	Muck	  PT	  A-8	0	   0	100	   100	 	 	 	 
		28-31	Sandy loam,   fine sandy   loam, gravelly   sandy loam	SC-SM, SC, SM   	A-2-4, A-2,   A-4 	0   	0   	90-100   	70-100   	50-85   	10-50   	15-25   	NP-10   
		31-44	sandy roam  Sand, loamy   sand, gravelly   sand	  SM, SP-SM, SP   	  A-2-4, A-2,   A-3 	   0 	   0 	  90-100   	  70-100   	  60-80   	   0-25   	   0-20   	  NP-3   
		44-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
I59A:			 	 	 	 	 	 	l I	l I	 	l I	 
Smiley	65	0-12	Loam	CL, ML, CL-ML	A-4, A-6	0-1	0-2	95-100	85-100	70-95	50-80	15-35	2-12
-		12-19	Clay loam,   loam, silty   clay loam	CL	A-6   	0-1   	0-3   	  95-100   	  85-100   	  70-95   	  50-80   	  25-40   	  10-20   
		19-42	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		42-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Smiley, very			I 	 	 	 	 	 	 	 	 	l I	! 
cobbly	10	0-12	Loam	ML, CL-ML, CL	A-4, A-6	1-3	1-10	95-100	85-100	70-95	50-80	15-35	2-12
	 	12-19	Clay loam,   loam, silty   clay loam	    CT	A-6   	0-1   	0-3   	95-100   	85-100   	70-95   	50-80   	25-40   	10-20   
		19-42	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		42-80	Clay loam, loam 	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95 <b>-</b> 100 	85-95 	75-90 	50-75 	25-40 	5-20 

Map symbol	Pct. of	   Depth	USDA texture	Classif	ication	Fragm		•	rcentago sieve n	e passi: umber	ng	  Liquid	•
and	map unit	ļ				>10	3-10	ļ				limit	
component name	<u> </u>	l In	I	Unified	AASHTO	inches   Pct	Pct	4 	10 I	40 I	200	Pct	index
							100		i	¦	! 		
I59A:				l					ļ	ļ	ļ		
Kratka	9	•	Fine sandy loam		A-4	0	0	95-100					NP-10
		 	Loamy sand, sand, loamy fine sand	SP-SM, SM,   SW-SM 	A-2-4, A-3   	0       	U	    95-100	    90-100	50-80   	5-35   	0-20   	NP-3   
		18-25   	Loamy sand, sand, sand, sand	SM, SP-SM, SW-SM	A-2-4, A-2,   A-3	0     	0	95-100   	90-100   	50-80   	5-35   	0-20	NP-3 
		25-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Roliss	5	   0-14	  Loam	  CL, CL-ML	  A-4, A-6	   0-1	0-5	  95-100	  80-100	  80-100	  60-90	  20-40	5-20
j		14-20	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85 <b>-</b> 95	75-90 	50-75 	25-40	5-20
Reiner	4	   0-7	  Fine sandy loam	SM, SC-SM	  A-4	0	0-5	  85-100	  85-95	  65-85	  35-50	15-35	NP-10
		7-17   	Clay loam, loam, sandy clay loam	  Cr	A-6   	0     	0-3	85-100   	75-100   	60-95   	55-80   	25-40   	10-20   
İ		17-35	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1		95-100					5-20
		35-80 	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1   	0-5	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Linveldt	3	0-9	Fine sandy loam	SC-SM, SM	A-2-4, A-4	0	0-5	  95 <b>-</b> 100	  95-100	  65-90	  20-50	0-25	NP-10
		9-16   	Sandy clay   loam, loam,   sandy loam	SC-SM, SC,   CL-ML, CL 	A-2-4, A-4   	0-1   	0-5	95-100   	80-100   	50-90   	25-75   	20-30   	5-10   
		16-29   	Loamy sand,   sand, coarse   sand	SM, SC-SM,   SP-SM 	A-1, A-2, A-3   	0-1     	0-5	65-100   	55-100   	30-80   	5-30   	0-20   	NP-3   
j	İ	29-45	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95 <b>-</b> 100	85-95	75-90	50-75	25-40	5-20
		45-80 	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100 	85 <b>-</b> 95 	75-90 	50-75 	25-40	5-20
Smiley,		! 		 				! 	 		 	<u> </u>	i
depressional	3	•		CL, CL-ML	A-4, A-6	0-1		95-100				20-40	5-20
		12-19   	Clay loam,   loam, silty   clay loam	  -  CT	A-6   	0-1     	0-3	95-100   	85-100   	70-95   	50-80   	25-40   	10-20   
İ		19-42	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1		95-100				25-40	5-20
		42-80 	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1   	0-5	95-100 	85-95 	75-90 	50-75 	25-40	5-20 
Strandquist	1	0-10	Loam	CL-ML, CL	  A-4	0	0	  95 <b>-</b> 100	  80-100	  75-90	  50-75	20-30	5-10
		10-20     	Gravelly sand,   gravelly   coarse sand,   very gravelly	GP-GM, SP,   SP-SM, GP,   GW-GM 	A-1   	0       	2-5	30-65     	15-45     	5-40     	0-10     	0-20   	NP-3     
		l	sand	!	ļ.			ļ	ļ	ļ .	ļ	İ	
		20-60	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	nents	•	rcentage	_	ng	  Liquid	   Plas-
and	map unit	201011			I	>10	3-10	i	32010 11			limit	
component name			i	Unified	AASHTO		inches	4	10	40	200		index
		In	İ	İ	İ	Pct	Pct	i	l	i	i	Pct	İ
			ļ.	!	<u> </u>	ļ		ļ	ļ	ļ	ļ	ļ	ļ
I60A: Smiley,							 		 				
depressional	   80	0_12	  Mucky loam	CL, CL-ML	  A-4, A-6	   0-1	l l 0-3	   95_100	  85-95	  80-95	  60-85	120-40	   5-20
depressionar	80				A-4, A-0  A-6	0-1						25-40	
	i		loam, silty	 	0	~ -	" "						
	i		clay loam	İ	İ	i	İ	İ	İ	i	i	i	i
	j	19-42	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		42-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
gud 1 aug	10	0.10	 										
Smiley	10	0-12	•	CL-ML, CL, ML	A-4, A-6  A-6	0-1   0-1	•	•	85-100  85-100	•	•	•	2-12  10-20
		12-19	loam, silty	I CL	A-6	U-T	U-3 	   33-100	   65-100	/ U = 3 5 	50-60 	25-40 	10-20 
	i		clay loam	i İ	i i	i	l I	! 	i	i	i	ŀ	i
	i	19-42	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	  85-95	75-90	50-75	25-40	5-20
İ	İ	42-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Hamre	   5	0-13	Musele	  PT	  A-8	   0	   0	   100	   100	 	 	 	 
namre	5			1	A-4, A-6	0-1			80-100	1	1	1	   5-20
			loam, silt   loam	   	, 0   		   	   	   	   			   
İ	İ	18-71	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		71-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Kratka	   5	0-11	  Fine sandy loam	  sm.sc-sm	  A-4	l l 0	l I 0	  95-100	  90-100	  50-80	  35-50	   0-25	  NP-10
			Loamy sand,	SW-SM, SM,	A-2-4, A-3	0	•		90-100		•	0-20	
j	i		sand, loamy	SP-SM	j	į	j	į	j	i	i	i	i
			fine sand										
		18-25			A-2-4, A-2,	0	0	95-100	90-100	50-80	5-35	0-20	NP-3
			sand, fine	SW-SM	A-3							!	
		25-80	sand Clay loam, loam	  ст. <b>=</b> мт. ст.	  A-6, A-4	   0-1	l l 0-5	   05_100	  85-95	  75-90	  50-75	125-40	   5-20
		25-00		CD-MD, CD	N-0, N-1	0-1	0-3 	 	03-33 	/ J = J 0	30	25-40	3-20
I61A:	i		İ	İ	İ	j	j	į	j	i	i	i	i
Strandquist	70	0-10	Loam	CL-ML, CL	A-4	0	0	95-100	80-100	75-90	50-75	20-30	5-10
		10-20	Gravelly sand,		A-1	0	2-5	30-65	15-45	5-40	0-10	0-20	NP-3
			gravelly	SP, GP-GM,		ļ			ļ	ļ	ļ	ļ	ļ
			coarse sand,	GP	 		 	 	 				
			very gravelly sand	I I	l I	 	l I	l I	l I	 	I I	1	 
		20-60	Loam, clay loam	CL, CL-ML	  A-6, A-4	   0-1	l l 0-5	ı   95–100	I  85-95	  75-90	  50-75	1   25-40	   5-20
	i	=0 00				-	~ ~	= = = = = = = = = = = = = = = = = = =					

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Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentago sieve n	e passin umber	ng	  Liquid	   Plas-
and	map unit				[	>10	3-10					limit	ticity
component name	I		L	Unified	AASHTO	inches	inches	4	10	40	200	L	index
!	. !	In	<u> </u>	ļ	ļ.	Pct	Pct		ļ	ļ		Pct	
I61A:			 	 	 	l	 	 	 	 	 	 	 
Mavie	8	0-12	Fine sandy loam	SC-SM, SM	A-4	j 0	0-3	95-100	90-100	50-80	35-50	0-25	NP-10
	 	12-18	Loam, fine   sandy loam,   sandy loam	SC-SM, SC,   SM, CL-ML 	A-4, A-6   	0   	0-5   	95-100   	85-100   	65-95   	15-75   	20-35   	NP-15   
		18-39	Very gravelly   coarse sand,   very gravelly   sand, very   gravelly loamy   sand	GP-GM, GP	A-1         	0         	2-5         	30-65       	15-45         	5-40         	0-10         	0-20         	NP-3         
	į	39-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	  85-95 	75-90	  50-75 	25-40	5-20
Roliss	7	0-14	Loam	CL, CL-ML	A-4, A-6	0-1	0-5	  95-100	  80-100	  80-100	  60-90	20-40	5-20
i	i	14-20	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
į	į	20-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
  Kratka	5	0-11	  Fine sandy loam	  SM, SC-SM	  A-4	0	   0	  95-100	  90-100	  50-80	  35-50	0-25	  NP-10
	       	11-18		SM, SW-SM,   SP-SM 	A-2-4, A-3   	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20   	NP-3   
	 	18-25	!	SP-SM, SW-SM,   SM	A-2-4, A-2,   A-3	0   	   0 	  95-100   	  90-100   	50-80   	5-35   	0-20	NP-3   
	 	25-80	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95 I	75-90	50-75	25-40	5-20
Foxhome	4	0-10	Sandy loam	  SM	A-4	0	0-2	  95-100	  90-100	  75-90	  35-50	0-25	  NP-10
	 	10-15	Fine sand,   loamy sand,   sand	sm, sw-sm   	A-2, A-3   	0   	0-3   	75-95   	65-90   	  45-80   	5-35   	0-25	NP-5   
		15-23	Very gravelly   sand, very   gravelly   coarse sand,   very gravelly   loamy sand	GP, SP-SM,   SP, GP-GM       	A-1         	0         	2-5         	30-65       	15-45         	5-40       	0-10           	0-20         	NP-1         
ļ		23-80	Clay loam, loam	CL, CL-ML	A-6, A-4 	0-1	0-5 	95 <b>-</b> 100	85 <b>-</b> 95 	75-90 	50-75 	25-40 	5-20 

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

and	Pct. of	_	USDA texture	Classii	ication	Fragi		•	rcentage sieve n	_	_	Liquid	
	map unit		!		!	>10	3-10	ļ				limit	
component name				Unified	AASHTO	inches		4	10	40	200		index
		In		 	 	Pct	Pct					Pct	 
I61A:			İ	! 	! 		 	<u> </u>	! 	 	i	¦	 
Hangaard	3	0-10	Sandy loam	SM	A-2-4, A-4	0	0-3	95-100	80-100	50-75	15-45	0-25	NP-10
		10-15	Loamy sand,	SM, SP-SM	A-1, A-2-4,	0	0-3	95-100	80-95	40-70	5-25	0-20	NP-5
			coarse sandy		A-3								
			loam, loamy		!			!		!	!	!	!
			coarse sand										
	. !	15-80	Gravelly coarse	•	A-1, A-2, A-3	0	0-3	70-95	55-90	30-60	0-10	0-20	NP-3
			sand, gravelly	 				 					
			sand, coarse sand	 	 	 		 	 	 		1	 
	i i			İ	İ	<u> </u>		İ	İ	İ	i	İ	
Northwood	3	0-9	Muck	PT	A-8	0	0	100	100				
		9-14	Fine sandy	SC-SM, SM	A-2-4, A-4,	0	0-3	95-100	90-100	50-85	15-50	0-25	NP-10
			loam, loamy		A-2			!	ļ	ļ	!	!	ļ
			fine sand,							!	!	!	!
		14 24	loamy sand  Coarse sand,	  SM, SP-SM	  A-2, A-3,	I I 0	l l 0-3	   05 100	  80-100	   70 0E	25	   0-15	1177 2
		14-24	fine sand,	SM, SP-SM 	A-2-4	0   	U-3 	  95-100	60-100	70 <b>-3</b> 5 	5-35	1 0-13	NP-3
	i		loamy fine	l İ	 		 	! 	i i	i	i	i	i
	i i		sand	İ	İ	i	i	i	i	i	i	i	i
İ	i i	24-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
I62A:									 				
Syrene	   70	0-9	  Sandy loam	  SC-SM, SM	  A-4	   0-1	   0-3	  95-100	  80-100	I  60-75	  20-45	0-25	  NP-10
_	i i	9-17	Loam, sandy	CL, SC,	A-4	0	0-5	95-100	85-100	50-75	15-65	20-35	5-15
	i i		loam, sandy	CL-ML, SC-SM	j	į i	İ	İ	į	İ	į	İ	į
			clay loam										
		17-27	•	SP, SP-SM	A-1, A-2, A-3	0-1	0-5	70-95	55-80	30-60	0-10	0-20	NP-3
			loamy fine					!	ļ	ļ	!	!	ļ
			sand to							!	!	!	!
			gravelly coarse sand	l I	l i	 	 	 	 	 			 
		27-60		  SP-SM, SP	  A-1, A-2, A-3	l l 0-1	l   0-5	l   70-95	  55-80	  30-60	0-10	0-20	  ND-3
	i	2, 00	loamy fine			0 -	0 J		33 00	30 00 	1 0 10	1 0 20	
	i i		sand to	İ	İ		i	i	i	i	i	i	i
	i i		gravelly	İ	į	i	İ	İ	i	İ	i	i	i
	İ		coarse sand	İ	İ	ĺ		ĺ	ĺ	ĺ	İ	İ	ĺ
Rosewood	   11	0-8	  Fine sandy loam	lew so so se		   0	   0	   05-100	105_100	  65-00		0-25	   NTD. 10
ROSEWOOD	<del>   </del>				A-2-4, A-4  A-2-4, A-4	0   0						20-30	
	' ! 	0-10	loam, sandy		<b>2                                  </b>	i	ľ	, 55 ·±00	, , , , , , , , ,	, 55 -65 	1	20.30	
	' ' 		loam, loamy	İ	İ	i		i	i	i	i	i	i
	j j		fine sand	İ	İ	į	į	į	į	į	i	i	i
j	ı İ	18-80	Fine sand, sand	SP-SM, SM	A-1, A-2-4,	j o	0	85-100	75-100	45-75	5-35	0-20	NP-3
			1		A-3		i	i	i	i .			1

				Classif	ication	Frag	ments	Per	rcentage	e passi	ng		
Map symbol	Pct. of	Depth	USDA texture					.	sieve n	umber		Liquid	Plas-
and	map unit					>10	3-10					limit	
component name			<u></u>	Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct					Pct	
I62A:													
Hangaard	5		1	1	A-2-4, A-4	0	!	95-100			•		NP-10
		10-15		SP-SM, SM	A-1, A-2-4,	0	0-3	95-100	80-95	40-70	5-25	0-20	NP-5
	!		coarse sandy		A-3	!		!		!	!	!	!
			loam, loamy coarse sand	 	 				 		!		
	 	   15_00	Gravelly coarse	  cp_cw_cp	  A-1, A-2, A-3	I 0	l l 0-3	  70-95	   55_90	   30_60	I I 0-10	0-20	MD = 3
	! !	13-00 	sand, gravelly		A-1, A-2, A-3 	1	l 0-3	/ U - 3 3	33-90	30-00 	1 0-10	0-20 	MF-3
	<u> </u>		sand, coarse	i	! 	i	i	¦	! !	i	i	i	i
	i		sand	i	i I	i	i	i	! 	i	i	i	i
	j i		i	i	İ	i	i	i	İ	i	i	i	i
Karlsruhe	4	0-15	Sandy loam	SC-SM, SM, SC	A-4, A-2	0	0-3	95-100	85-100	55-90	15-50	0-25	NP-10
		15-30	Sandy loam,	SC-SM, SC, SM	A-2, A-4, A-1	0	0-3	95-100	85-100	45-75	10-40	0-25	NP-10
			loamy sand										
		30-60	Coarse sand,	•	A-1, A-2, A-3	0	0-5	45-90	30-80	20-70	0-15	0-20	NP-1
	!		gravelly	GP, SP-SM,			!	!		!	!	!	
			coarse sand,	SP		ļ	ļ	ļ		ļ	!	!	ļ
			gravelly sand						 				
Deerwood	l 3	l   0-10	Muck	  PT	  A-8	l l 0	I I 0	1 100	l   100	 			 
DCCI WOOd	, , , , , , , , , , , , , , , , , , ,		1	1	A-2-4, A-4	l 0	0-2	95-100		1	1	1	  NP-10
	i		loamy sand,		, 	i	i						
	j i		fine sandy	İ	İ	i	i	i	İ	i	i	i	i
	j i	İ	loam	İ	İ	į	İ	į	j	į	į	İ	į
		12-60	Fine sand,	SP, SP-SM, SM	A-1, A-2, A-3	0	0-5	75-100	55-100	35-70	0-25	0-20	NP-3
			sand, gravelly										
			sand								1		
													ļ
Hamar	3		Loamy fine sand	! .	A-2-4	0	0		95-100		•		NP-5
		12-17	Loamy fine		A-2-4	0	0	100	95-100	50-80	10-35	0-20	NP-3
	 	l I	sand, loamy sand, fine	SC-SM	l I	 			l I	 	!		 
			sand, line	 	I I	 		i	l I				l I
	! 	   17-40	Fine sand,	SP-SM, SM,	  A-2-4, A-3	l l 0	l l 0	1 100	  95-100	  50-80	5-35	0-20	NP-3
	i i		loamy sand,	SC-SM					= = = = = = = = = = = = = = = = = = =		5 55		
	i	i	loamy fine		İ	i	i	i	i	i	i	i	i
	į i	İ	sand	i	i	i	i	i	i	i	i	i	i
	j i	40-47	Loamy fine sand	SC-SM, SM	A-2-4	j 0	0	100	95-100	50-80	15-35	0-20	NP-5
	I i	47-60	Fine sand,	SM, SC-SM,	A-3, A-2-4	j 0	0	100	95 <b>-</b> 100	50-80	5-35	0-20	NP-3
			1 1	1	i	i	1	1	i	i	i	1	1

loamy sand, | loamy fine sand

SM, SC-SM, SP-SM

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit					>10	3-10	i					ticity
component name			i	Unified	AASHTO	inches	inches	4	10	40	200	i	index
		In	]			Pct	Pct		ļ			Pct	<u> </u>
I62A:	 		 	 	 	 	 	 	 	 	 		 
Strandquist	2	0-10	Loam	CL-ML, CL	A-4	0	0	95-100	80-100	75-90	50-75	20-30	5-10
	       	10-20	Gravelly sand,   gravelly   coarse sand,   very gravelly   sand	GW-GM, SP-SM,   SP, GP-GM,   GP 	A-1       	0       	2-5     	30-65       	15-45       	5-40       	0-10       	0-20       	NP-3     
	 	20-60	Loam, clay loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Radium	1 1	0-14	Loamy sand	SW-SM, SM	A-2-4	,   0	0	95-100	95-100	50-70	5-25	0-20	NP-5
	 	14-33	Sand, loamy   sand, gravelly   loamy coarse   sand		A-1, A-2, A-3     	0     	0-5     	75-100     	  65-95     	35-60     	3-15     	0-20     	NP-3     
		33-43	Gravelly sand, gravelly coarse sand, very gravelly coarse sand	SP-SM, SP,   GW-GM, GW   	  A-1     	0       	0-5     	45-90       	  30-75     	  15-40     	0-10       	0-20       	NP-3       
	 	43-80	Sand, coarse   sand, loamy   sand	SM, SW-SM,   SP-SM 	A-1, A-2, A-3     	0     	0-5     	85-100     	75-95     	40-75     	5-20     	0-20     	NP-3     
Wyandotte	1 1	0-8	Clay loam	CL	A-6	0-1	0-3	95-100	85-100	70-95	50-70	30-40	10-15
	 	8-15	Loam, sandy clay loam	CL, CL-ML 	A-4 	0 	0-3 	95-100 	80-95 	60-90 	50-65 	20-35 	5-10 
		15-34	Gravelly loamy   coarse sand,   gravelly sand,   very gravelly   loamy coarse   sand	SP, SP-SM,   GP, GP-GM     	A-1           	0         	2-5       	20-65         	15-45         	5-40       	0-10         	0-20         	NP-3         
	 	34-60	Silty clay,   clay, silty   clay loam 	Сн     	<b>A</b> -7     	0-1     	0-3     	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     

40   	200	_ limit	ticity
	200	1	Plas-  ticity
   			index
 	1	Pct	
	1		
		!	
70-90	35-55	0-25	NP-10
   CE 0E	115 50		
05-05 	112-20	120-30	INP-IO
l I	1	-	
l İ	1	-	i
l   50-80	5-35	0-20	NP-3
İ	i	i	i
i i i	i	i i	i
90-100	75-95	40-70	20-45
		ļ	
	ļ	ļ	
60-85 	30-65	0-25	INP-10
I   30-80	   5-40	1 0-20	IND-3
50 00 	1 3 10	0 20	
i	i	i	i
İ	i	i	İ
90-100	75-95	40-70	20-45
•			
90-100	75-95	40-70	20-45
l I	1		l I
I   90-100	। ) 75-95	140-70	120-45
		/	
İ	i	i	i
90-100	75-95	40-70	20-45
		!	
			NP-10
60-85	25-55	15-25	NP-10
l I	-	-	l i
i   50-80	1 5-35	1 0-20	  NP-3
50 00 	1 3-33	3-20	
İ	i	i	i
90-100	75-95	40-70	20-45
İ	ĺ	į	İ
		1	
	50-80  90-100  60-85  30-80  90-100  75-90 90-100  90-100  50-85  50-80	50-80   5-35 	60-85   25-55   15-25

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif:	ication	Fragi	ments	•	rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit					>10	3-10					limit	ticity
component name		In	I	Unified	AASHTO	Inches   Pct	inches Pct	4 	10 	<u>40</u>	200 I	l   Pct	index
	i		İ	 				İ	İ	İ	İ		İ
I63A: Clearwater,			 	 	 	 	 	 	 	 	 	 	 
depressional	3		Mucky clay loam	•	A-6	0						25-40	
		8-35	Clay, silty   clay, silty   clay loam	CL, CH   	A-7   	0-1   	0-1   	95-100   	95-100   	90-100   	70-95   	40-70   	20-45   
		35-80	Silty clay,   clay, silty   clay loam	CH   	A-7   	0-1     	0-3   	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     
Rosewood	3	0-8	  Fine sandy loam	SC-SM, SC, SM	  A-2-4, A-4	0	0	  95-100	  95-100	65-90	  30-50	0-25	  NP-10
		8-18	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0   	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
		18-80	Fine sand, sand   	SM, SP-SM   	A-1, A-2-4,   A-3 	0   	0   	85-100   	75-100   	45-75   	5-35   	0-20   	NP-3   
Ulen	1		Fine sandy loam  Fine sandy   loam, sandy   loam, loamy   fine sand		A-4  A-2-4, A-4 	0   0     		100  95-100   		80-100  65-85   		0-25  15-25   	NP-10  NP-10 
		42-60	Fine sand, sand	SM, SP-SM	  A-1, A-2, A-3 	i o I	0 	  85-100 	75-95 	  45-75 	5-25	0-20 	NP-3 
Wyandotte	1				A-6	0-1						30-40	
		8-15	Loam, sandy clay loam	CL-ML, CL 	A-4 	0 	0-3 	95-100 	80-95 	60-90 	50-65 	20-35 	5-10 
		15-34	Gravelly loamy   coarse sand,   gravelly sand,   very gravelly   loamy coarse   sand	SP-SM, SP	<b>A-1</b>       	0         	2-5       	20-65       	15-45         	5-40       	0-10       	0-20         	NP-3         
		34-60	Silty clay,   clay, silty   clay loam 	СН   	A-7   	0-1     	0-3   	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     
I64A: Ulen	70   		  Fine sandy loam  Fine sandy   loam, sandy   loam, loamy   fine sand		  A-4  A-2-4, A-4   	   0   0   	   0   0 	   100  95-100   		  80-100  65-85   	•	   0-25  15-25 	  NP-10  NP-10 
		42-60	Fine sand  Fine sand, sand 	  SP-SM, SM 	  A-1, A-2-4,   A-3	   0 	   0 	  85-100 	  75-95 	  45-75 	   5-25 	   0-20 	  NP-3 

Map symbol	Pct. of	Depth	USDA texture	Classif: 	ication	Fragi	ments	•	rcentage sieve n	_	_	  Liquid	   Plas
and	map unit					>10	3-10	l				limit	ticit
component name				Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct					Pct	
			!	!	<u> </u>		!				!	!	
I64A:													
Rosewood	10		Fine sandy loam	•	•	0		•		•	30-50		
	 	8-18	loam, sandy	SC-SM, SM   	A-2-4, A-4   	0   	0   	95-100   	95-100   	65-85   	15-50   	20-30   	NP-10   
			fine sand	<u> </u>									
	 	18-80	Fine sand, sand	SM, SP-SM   	A-1, A-2-4,   A-3	0 	0 	85-100   	75-100 	45-75   	5-35	0-20	NP-3 
Flaming	8 I	0-12	  Loamy fine sand	I ISC-SM.SM	  A-2-4	I I 0	I I 0	   100	  95-100	l   65-80	  15-30	0-20	NP-5
			! -	•	A-2-4, A-3	l 0	I 0	•	95-100	•		0-20	
	i		loamy sand,	, ,   		i I	i I	i I	   	   		İ	
	 	17-27	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3   	0   	0 	100   	95-100   	50-80   	5-30 	0-20   	NP-3   
	 	27-60	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3   	0   	0   	100   	95-100   	50-80   	5-30   	0-20	NP-3   
Karlsruhe	5 l	0-15	  Sandy loam	  SM, SC-SM, SC	  A-4, A-2	   0	   0-3	  95-100	  85-100	  55-90	  15-50	   0-25	  NP-10
	i 			SC, SC-SM, SM		0 		95 <b>-</b> 100	'	•		0-25	NP-10
	 	30-60		SP, GP-GM,   SM, GP,   SP-SM	A-1, A-2, A-3     	0     	0-5     	45-90     	30-80	20-70	0-15	0-20	NP-1   
Radium	3 l	0-14	  Loamy sand	  SM, SW-SM	  A-2-4	l l 0	I I 0	l   95-100	   95-100	l   50-70	   5-25	   0-20	  ND-5
				SM, SP-SM, SP		0   0   		75-100     				0-20     	
	 	33-43	Gravelly sand, gravelly coarse sand, very gravelly	GW-GM, SP-SM,   SP, GW 	  A-1   	   0   	   0-5   	  45-90   	  30-75   	  15-40   	0-10     	0-20     	NP-3     
	 	43-80	coarse sand Sand, coarse sand, loamy sand	  SP-SM, SW-SM,   SM 	  A-1, A-2, A-3   	   0   	   0-5   	  85-100   	  75-95   	  40-75   	   5-20   	   0-20   	  NP-3   

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	   Pct. of	Depth	USDA texture	Classif	ication	Frag	ments	•	rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit	_				>10	3-10	i				limit	
component name	i		<u>i</u>	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
		In	ļ	ļ		Pct	Pct	[				Pct	
I64A:	 		 	 	 		 	 	 	 	 		 
Strathcona	2     2	0-10	Fine sandy loam	CL-ML, SC-SM,	A-4	0 	0	95-100 	90-100	70-85	40-55 	0-25	NP-10 
	 	10-17	Fine sandy loam, sandy loam, loamy fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0     	95-100     	95-100     	65-85     	15-50     	20-30	NP-10     
	i I I	17-28	Sand, fine   sand, loamy   fine sand	SP-SM, SM   	A-2, A-3,   A-2-4	0   	   0-1 	95-100   	90-100   	  50-80 	5-30   	0-20	NP-3   
	j 	28-80	Clay loam, loam	CL-ML, CL	A-6, A-4 	0-1	0-5 	  95-100 	85-95 	75-90 	50-75	25-40	5-20
Thiefriver	2     2	0-12	  Fine sandy loam 	CL-ML, ML, SC-SM, SM	  A-4 	o 	į	į	į	İ	İ	0-25	į
	 	12-23	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0     	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
	 	23-32	Fine sand,   loamy fine   sand, loamy   sand	SP-SM, SM     	A-2-4, A-2,   A-3 	0     	0-3     	90-100     	80-100     	50-80     	5-35     	0-20     	NP-3     
		32-80	Silty clay,   clay, silty   clay loam 	Сн     	A-7     	0-1   	0-3	95-100     	95-100     	90-100     	75-95     	40-70     	20-45     
I65A: Ulen	   70	0-9	Loamy fine sand	  sm	  A-2-4	   0	   0	   100	  95-100	  50-80	  15-30	0-20	  NP-5
				•	A-2-4, A-4   	0     				•	•	15-25   	
	 	42-60	Fine sand, sand   	SM, SP-SM   	A-1, A-2-4,   A-3	0   	0   	85-100   	75-95   	45-75   	5-25   	0-20	NP-3   
Rosewood	   10	0-8	  Fine sandy loam	SM, SC, SC-SM	A-2-4, A-4	0	0	95-100	95-100	65 <b>-</b> 90	30-50	0-25	NP-10
	 	8-18	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0     	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
		18-80	Fine sand, sand	SM, SP-SM	A-1, A-2-4, A-3	0	   	85-100 	75-100	45-75 	5-35	0-20	NP-3 

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments		rcentag	_	-	  Liquid	   Plas-
and	map unit		[			>10	3-10					limit	ticity
component name			<u></u>	Unified	AASHTO	inches	inches	4	10	40	200	L	index
		In	I			Pct	Pct		l			Pct	
			[										
I65A:			[								1		
Flaming	6		Loamy fine sand	!	A-2-4	0	0		95-100		•		NP-5
	 	12-17	Fine sand,   loamy sand,   sand	SW-SM, SM   	A-2-4, A-3   	0   	0   	100   	95-100   	50-80   	5-30   	0-20   	NP-3   
	 	17-27	Fine sand,   loamy sand,   sand	sw-sm, sm 	A-2-4, A-3   	0   	i o I I	100   	  95-100   	50-80   	5-30	0-20   	NP-3   
		27-60	Fine sand,   loamy sand,   sand	SW-SM, SM	A-2-4, A-3   	0     	0     	100     	  95-100   	50-80     	5-30	0-20   	NP-3   
Poppleton	   4	0-6	  Fine sand	SC-SM, SM	  A-2-4	l l o	i i o	  95-100	  95-100	l 65-80	115-30	0-20	NP-5
•	i	6-9	Fine sand, sand		A-2-4, A-3	0	0	100	•	80-95	•	0-20	NP-3
	j i	9-40	Fine sand, sand	SM	A-2-4, A-3	0	j 0	100	100	80-95	5-15	0-20	NP-3
		40-60	Fine sand, sand	SM	A-2-4, A-3	0	0	100	100	80-95	5-15	0-20	NP-3
Karlsruhe	3	0-15	Sandy loam	  SM, SC, SC-SM	  A-4, A-2	0	0-3	  95 <b>-</b> 100	  85-100	  55-90	  15-50	0-25	  NP-10
	 	15-30	Sandy loam,   loamy sand	SM, SC, SC-SM 	A-2, A-4, A-1 	0 	0-3 	95-100 	85-100 	45-75 	10-40 	0-25 	NP-10 
	 	30-60	Coarse sand,   gravelly   coarse sand,   gravelly sand	SP-SM, GP-GM,   SP, GP, SM   	A-1, A-2, A-3       	0       	0-5       	45-90       	30-80       	20-70       	0-15     	0-20       	NP-1       
Radium	   3	0-14	Loamy sand	SW-SM, SM	A-2-4	0	0	95-100	  95-100	50-70	5-25	0-20	NP-5
	 	14-33	Sand, loamy   sand, gravelly   loamy coarse   sand		A-1, A-2, A-3     	0     	0-5     	75-100     	  65-95     	35-60     	3-15	0-20     	NP-3     
		33-43	Gravelly sand, gravelly coarse sand, very gravelly coarse sand	SP-SM, SP,   GW-GM, GW   	 	       	0-5       	45-90       	  30-75     	  15-40     	0-10     	0-20       	NP-3       
		43-80	Sand, coarse   sand, loamy   sand	SP-SM, SM,   SW-SM 	  A-1, A-2, A-3   	0     	0-5     	  85-100     	75-95     	40-75     	5-20	0-20     	NP-3     

Table 23.--Engineering Index Properties--Continued

   Map symbol	Pct. of	Depth	USDA texture	Classi 	fication	Frag	ments	•	rcentage sieve n		ng	  Liquid	   Plas
and	map unit	-			I	>10	3-10	i				limit	
component name			İ	Unified	AASHTO		inches	4	1 10	l 40	1 200		index
		In	<u> </u>	l		Pct	Pct	<u> </u>	1	<del></del>	1	Pct	 
į				İ	i			i	i	İ	i		i
I65A:	j i		İ	İ	į	i	į	İ	İ	İ	İ	İ	İ
Strathcona	2	0-10	Fine sandy loam	SM, CL-ML,	A-4 	0 	0	95-100 	90-100	70-85 	40-55 	0-25	NP-10 
   		10-17	Fine sandy   loam, sandy   loam, loamy   fine sand	SC-SM, SM     	A-2-4, A-4   	0     	0     	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
 		17-28	Sand, fine   sand, loamy   fine sand	SP-SM, SM	A-2-4, A-3, A-2	0	0-1   	95-100   	90-100   	50-80   	5-30   	0-20	NP-3   
ļ		28-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95 <b>-</b> 100	85 <b>-</b> 95	75-90 	50 <b>-</b> 75	25-40	5 <b>-</b> 20
Thiefriver	2	0-12	  Fine sandy loam 	  SC-SM, SM,   ML, CL-ML	  A-4 	   0 	   0 	  95-100 	  80-100 	  70-90 	  35-55 	0-25	  NP-10 
   		12-23	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0     	95-100     	95-100     	65-85     	15-50     	20-30     	NP-10     
   		23-32	Fine sand,   loamy fine   sand, loamy   sand	sm, sp-sm     	A-2-4, A-2,   A-3 	0     	0-3	90-100     	80-100     	50-80   	5-35     	0-20	NP-3   
 		32-80	Silty clay,   clay, silty   clay loam	  -  -  -	A-7   	0-1	0-3     	95-100     	95-100     	  90-100     	75-95     	40-70   	20-45     
I66A:				İ	i	i	i	i	i	İ	i	i	i
Vallers	75	0-12	Loam	CL, CL-ML	A-4	0-1	0-2	95-100	90-100	80-90	50-80	20-40	5-20
ļ		12-21	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
ļ.		21-60	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Vallers, very			 	 			 	 	 	 	 		 
cobbly	7	0-12	1	CL, CL-ML	A-4	0-1	•		90-100	•	,		5-20
ļ			Clay loam, loam		A-4, A-6	0-1		•	85-95	•		•	5-20
<b> </b> 		21-60	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5 	95-100 	85 <b>-</b> 95	75-90 	50-75 	25-40	5-20 
  Hamerly	6	0-8	  Loam	  CL, CL-ML	  A-4, A-6	0-1	   0-5	  95-100	  90-100	  80-95	  60-90	20-40	   5-20
į	l İ	8-25	Loam, clay loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
ļ		25-60	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20

Map symbol	Pct. of	   Depth	USDA texture	Classi:	fication	Fragi	ments		rcentage sieve n	_	_	  Liquid	   Plas-
and	map unit		[			>10	3-10					limit	ticity
component name				Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct					Pct	ļ
I66A:		 	 	 			 	 	 	 			 
Grimstad	3		Fine sandy loam	SC-SM, SM	A-2-4, A-4	0	0	95-100	95-100	65-90	20-50	0-30	NP-10
		9-22   	loamy fine sand, fine	SC-SM, SM   	A-2-4, A-4   	0   	0   	100   	95-100   	65-85   	15-50   	15-25   	NP-10   
			sand										
	   	22-28   	Loamy sand,   loamy fine   sand, fine   sand	SM, SW-SM   	A-2, A-2-4,   A-3	0	0   	100   	    95-100	80-90   	5-35	0-20   	NP-3   
		   28-60	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	   0-5	  95-100	  85-95	  75-90	  50-75	25-40	   5-20
Manual a	   3	0.10		laa ay ay		   0		105 100					
Mavie	3		Fine sandy loam	•	A-4							0-25	
	   	12-18   	Loam, fine   sandy loam,   sandy loam	SM, SC-SM,   SC, CL-ML 	A-4, A-6   	0   	0-5   	    95-100	    85-100	65-95   	15-75   	20-35   	    NP-12
		18-39     	Very gravelly   coarse sand,   very gravelly   sand, very   gravelly loamy   sand	GP, GP-GM,   SP, SP-SM     	A-1     	0   0	2-5         	30-65         	15-45         	5-40       	0-10	0-20	NP-3         
		39-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	  85-95	75-90	50-75	25-40	5-20
Roliss,	 	 	 	! 			i İ	i i	l İ	 	i		 
depressional	3	0-14	Loam	CL-ML, CL	A-4, A-6	0-1	0-1	95-100	85-95	80-95	60-85	20-40	5-20
		14-20	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		20-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85 <b>-</b> 95	75-90 	50-75	25-40	5-20
Strathcona	   3 	   0-10 	  Fine sandy loam 	  SM, SC-SM,   ML, CL-ML	  A-4 	   0 	   0 	  95-100 	  90-100 	  70-85 	  40-55 	0-25	  NP-10 
	     	10-17   	Fine sandy   loam, sandy   loam, loamy   fine sand	sm, sc-sm     	A-2-4, A-4   	0     	0     	95-100     	95-100     	65-85     	15-50     	20-30   	NP-10     
	 	17-28 	Sand, fine   sand, loamy   fine sand	SM, SP-SM   	A-3, A-2,   A-2-4	0   	0-1   	95-100   	  90-100   	  50-80 	5-30	0-20	NP-3   
		28-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	  85-95	   75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	   USDA texture	Classif	ication	Fragi	ments	•	rcentage sieve n	e passin	ng	  Liquid	   Plas-
and	map unit	l	[		ļ	>10	3-10	ļ				limit	ticity
component name				Unified	AASHTO		inches	4	10	40	200		index
		In				Pct	Pct					Pct	
I67A:	l I		l I	l I	l i	 	l I	l I	l I	l I	l I	 	 
Wheatville	l 70	l l 0-9	Loam	I ML	I   A-4	l l 0	I I 0	l l 100	l l 100	I   95-100	I   70-95	20-40	  NP-10
	, , , , , , , , , , , , , , , , , , ,		Silt loam, very	1		0	0	100		90-100	•		NP-10
	İ		fine sandy	İ	į	i	İ	İ	İ	İ	İ	i	İ
	İ		loam, loam	ĺ	ĺ	ĺ		ĺ		ĺ	ĺ	İ	ĺ
		31-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty	!	!								
			clay loam										
Augsburg	   13	   0-11	l II.oam	I IML	  A-4	l l 0	l l 0	l l 100	   100	   95-100	   70-95	  20-40	  NTD=10
11ugbbulg	l 13		Loam, very fine	1	A-4	1 0	l 0	100		95-100	•		NP-10
	i		sandy loam,	ĺ	İ	i	İ	İ		İ	İ	i	
	j i	İ	silt loam	j	j	į	j	j	İ	j	İ	į	İ
		18-33	Loamy very fine	CL-ML, ML	A-4	0	0	100	100	95-100	75-90	0-30	NP-10
			sand, very	!	!								!
			fine sandy										
			loam, loam,   very fine sand				l I	  -	l I	  -	 		 
	 	   33-60	very fine sand  Silty clay,	•	  A-7	   0-1	l l 0-3	   95_100	   95_100	   00_100	  75_95	  40-70	   20-45
		33-00 	clay, silty	I	<del>     </del>	U-1	l 0-3	 	55-±00 	JU-100	75-55 	<del>1</del> 0-70	20-45
	i		clay loam	İ	İ	i	İ	İ	İ	İ	İ	i	İ
	j i	İ	İ	İ	İ	į	İ	İ	İ	İ	İ	į	İ
Glyndon	8	0-11	Very fine sandy	ML, CL-ML, CL	A-4	0	0	100	100	95-100	50-90	20-30	NP-10
			loam	<u> </u>									
		11-28	Silt loam, very	CL-ML, ML	A-4	0	0	100	100	90-100	85-95	0-30	NP-10
	 	l I	fine sandy   loam, loam	l I	l I	 	l I	l I	l I	l I	l I	l I	 
		l   28-60	Loamy very fine	I ISM. MI. CIMI.	   A = 4	l l 0	I I 0	l l 100	l   100	  85-100	I   45-90	l 0-30	  NP-10
			sand, very	 		i	i						
	j i	İ	fine sand,	j	j	į	j	j	İ	j	İ	į	į
	İ		very fine	ĺ	ĺ	ĺ				ĺ	ĺ	ĺ	ĺ
			sandy loam	!	!					<u> </u>	ļ		!
Foxlake			 										
FOXIARE	5 I	0-19	Loam  Silty clay,	CL, CL-ML	A-4, A-6  A-7	0-1   0-1					•	20-40 40-70	
		15-30 	clay, silty	I	<del>     </del>	U-1	l 0-3	 	JJ-100 	JU-100	75-55 	<del>1</del> 0-70	20 - <del>1</del> 5
	i		clay loam	i	İ	i	! 		! 	i	İ	i	<u> </u>
	j	38-49	Silty clay,	CH	  A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
	j i	İ	clay, silty	j	j	į	j	j	İ	j	İ	į	İ
			clay loam										
		49-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty							ļ	ļ		ļ
	 		clay loam	 	 	1	l I	l I	 	l I	l I	1	 
	I I	I	I	I	I	I	I	I	I	I	I	I	I

0-1 | 0-3 | 95-100 | 95-100 | 90-100 | 75-95 | 40-70 | 20-45

Map symbol	Pct. of	   Depth	USDA texture	Classi	fication	Fragi	nents		rcentago sieve n	_	ng	  Liquid	   Plas-
and	map unit				1	>10	3-10	i					ticity
component name	_		İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
!		In	ļ.	!	!	Pct	Pct	!	ļ.	!	ļ	Pct	
   I67A:		 	l I	 			 	 	 	 	 		 
Hilaire	2	0-10	Loamy fine sand	SM, SC-SM	A-2-4	j 0	0	100	95-100	65-85	15-30	0-20	NP-5
		10-34 	Fine sand,   loamy fine   sand, sand	SM, SP-SM	A-1, A-3, A-2-4	0	0-5   	85-100   	75-100   	45-85   	5-40   	0-20	NP-3   
		34-80	Silty clay,   clay, silty   clay loam	  CH 	A-7 	0-1	0-3   	  95-100   	  95-100   	90-100   	  75-95   	40-70   	  20-45   
  Ulen	2	   0-9	Loamy fine sand	  SM	  A-2-4	0	l   0	1 100	  95-100	  50-80	  15-30	0-20	  NP-5
		9-42 	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4   	0     	0     	95-100       	  95-100     	65-85     	15-50     	15-25     	NP-10     
		42-60	Fine sand, sand	  SP-SM, SM   	A-1, A-2-4, A-3	0	   0 	  85-100   	  75-95   	  45-75   	   5-25   	0-20	  NP-3 
I69A:			İ	İ	i	i	İ	i	i	i	İ	i	i
Wyandotte    	65		Clay loam  Loam, sandy   clay loam	CL  CL-ML, CL 	A-6  A-4 	0-1   0 			85-100  80-95 			30-40  20-35 	10-15   5-10 
		15-34   	Gravelly loamy   coarse sand,   gravelly sand,   very gravelly   loamy coarse   sand	GP, GP-GM	A-1       	0       	2-5       	20-65         	  15-45       	5-40       	0-10         	0-20       	NP-3       
		   34-60 		  CH   	A-7   	0-1	   0-3   	  95-100   	  95-100   	  90-100   	  75-95   	  40-70   	  20-45   
Foxlake	10	   0-19	  Loam	CL, CL-ML	  A-4, A-6	   0-1	   0-2	  95-100	  90-100	  75-90	  50-80	  20-40	   5-20
		19-38	Silty clay,   clay, silty   clay loam	CH	A-7	0-1	0-3 	95-100   	95-100   	  90-100   	75-95   	40-70	  20-45   
		38-49 	Silty clay,   clay, silty   clay loam	  СН 	A-7 	0-1	   0-3 	  95-100 	  95-100 	  90-100 	  75-95   	  40-70 	20-45
		I I 49-80	Silty clay	।   ਵਸ	   2 = 7	I I 0-1	l 0-3	1 05 - 100	I   05_100	1	  75_05	1	120-45

| 49-80 |Silty clay, | clay, silty

clay loam

CH

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif 	ication	Fragi	ments	•	rcentag	_	ng		   Plas-
and	map unit					>10	3-10					limit	ticity
component name				Unified	AASHTO		inches	4	10	40	200	<u> </u>	index
		In	!			Pct	Pct				l	Pct	
I69A:			l I	l I	l I	 	l I	 	l I	 	l I		 
Espelie	l 8 I	0-9	  Fine sandy loam	I ISM. SC. MT	  A-2-4, A-4	l l 0	I I 0	  95-100	I   85-100	I 160-85	l   30-65	l l 0-25	  NP-10
Decire				CL		i	ı		03 100			0 23	
	i	9-24	Loamy sand,	SP-SM, SM	A-2, A-3,	0	0-5	  85-100	  60-100	30-80	5-40	0-20	NP-3
	į į		loamy fine	İ	A-1, A-2-4	į	j	į	İ	İ	İ	İ	İ
			sand, fine										
			sand										
		24-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty			ļ		ļ	ļ	!		ļ	
			clay loam				 				l i		
Clearwater,			l I	I I	 	 	 	 	l I	 	 		 
depressional	l 5	0-8	  Mucky clay loam	CL	  A-6	0	0-3	95-100	  95-100	  80-95	  60-85	25-40	1
-	i i	8-35	Clay, silty	CL, CH	A-7	0-1	0-1	95-100	95-100	90-100	70-95	40-70	20-45
	į į		clay, silty	İ	j	į	j	į	İ	İ	İ	İ	j
			clay loam										
		35-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty		!			!	!	!		!	
			clay loam					ļ	ļ	!		!	
Thiefriver	   5	0-12	  Fine sandy loam	l I⊂t.=MT. MT.	  A-4	l l 0	l l 0	  95-100	  80-100	  70-90	   35-55	   0-25	  NP-10
11110111101	, , , , , , , , , , , , , , , , , , ,	0 11		SC-SM, SM	 	i	ı	33 100	00 ±00	/ 0   3 0	33 33 	1 0 23	
	i	12-23	Fine sandy	SM, SC-SM	A-2-4, A-4	0	0	  95-100	  95-100	65-85	15-50	20-30	NP-10
	į į		loam, sandy	İ	j	į	j	į	İ	İ	İ	İ	j
			loam, loamy										
			fine sand										
		23-32	Fine sand,	SM, SP-SM	A-2-4, A-2,	0	0-3	90-100	80-100	50-80	5-35	0-20	NP-3
			loamy fine		A-3	ļ		ļ	ļ	!		ļ	
			sand, loamy	 			l I			 	l I		 
		32-80	sand  Silty clay,	l Ch	  A-7	   0-1	l l 0-3	   05_100	   05_100	   00_100	   75_05	  40-70	  20_45
		32-00	clay, silty	l .	<del>                                    </del>	U-I	l 0-3	33-100	 	30-100	/ J - <del>J</del> J	<del>1</del> 0-70	20-45 
	i		clay loam	İ	İ	i	! 	i	i	i	! 	i	<u> </u>
	i i		i -	İ	į	i	İ	i	i	İ	İ	i	İ
Karlsruhe	4	0-15	Sandy loam	SM, SC-SM, SC	A-4, A-2	j 0	0-3	95-100	85-100	55 <b>-</b> 90	15-50	0-25	NP-10
		15-30	Sandy loam,	SC-SM, SC, SM	A-2, A-4, A-1	0	0-3	95-100	85-100	45-75	10-40	0-25	NP-10
			loamy sand	l	<u> </u>			[				ļ	
		30-60	Coarse sand,	•	A-1, A-2, A-3	0	0-5	45-90	30-80	20-70	0-15	0-20	NP-1
			gravelly	GP-GM, SP-SM		ļ.		ļ	ļ	ļ		!	ļ
			coarse sand,	 	 	1	 	1			  -		
		] 	gravelly sand	 	l I	 	l I	 	l I	l I	l I	1	I I
	ا ا	l	I	I	I	I	I	I	I	I	I	I	I

5-20

5-20

5-20

5-20

Map symbol	Pct. of	Depth	USDA texture	c:	lassif	icatio	n 	Fragm		•	rcentag sieve n	_	_	  Liquid	
and component name	map unit			   Unif:		22	SHTO	>10  inches	3-10   inches	   4	l 10	l 40	1 200	limit	ticity index
Component name				01111	rea	AA	SHIU			1 *	1 10	1 40	1 200		Index
		In	l I	 				Pct	Pct	 	 			Pct	
I69A:			İ	! 						İ	<u> </u>	i		i	i
Syrene	3	0-9	Sandy loam	SC-SM,	SM	A-4		0-1	0-3	95-100	80-100	60-75	20-45	0-25	NP-10
		9-17	Loam, sandy	SC-SM,	CL-ML,	A-4		0	0-5	95-100	85-100	50-75	15-65	20-35	5-15
			loam, sandy	CL, SC		İ		į į		İ	İ	İ	İ	İ	İ
	İ		clay loam	İ		İ		į į	İ	İ	İ	İ	İ	İ	İ
	İ	17-27	Stratified	SP-SM,	SP	A-1,	A-2, A-3	0-1	0-5	70-95	55-80	30-60	0-10	0-20	NP-3
	İ		loamy fine	İ		İ		į į	İ	İ	İ	İ	İ	İ	İ
	İ		sand to	İ		İ		į į	İ	İ	İ	İ	İ	İ	İ
	İ		gravelly	İ		İ		į į	İ	İ	İ	İ	İ	İ	İ
	İ		coarse sand	İ		İ		į į	İ	İ	İ	İ	İ	İ	İ
	İ	27-60	Stratified	SP-SM,	SP	A-1,	A-2, A-3	0-1	0-5	70-95	55-80	30-60	0-10	0-20	NP-3
	İ		loamy fine	İ		İ		į į	İ	İ	İ	İ	İ	İ	İ
	İ		sand to	i		i		i i	İ	i	i	i	i	i	i
	İ		gravelly	İ		İ		j j	İ	İ	İ	İ	İ	İ	İ
j		İ	coarse sand	İ		j		j j	İ	į	İ	İ	İ	į	į
			<u> </u>									ļ		ļ	ļ
I70A:			!	ļ								ļ		1	
Strathcona	70	0-10	Fine sandy loam			A-4		0	0	95-100	90-100	70-85	40-55	0-25	NP-10
				SM, SC		!							1	1	
		10-17		SM, SC-	SM	A-2-4	, A-4	0	0	95-100	95-100	65-85	15-50	20-30	NP-10
			loam, sandy	!		!				!	!	!	!	ļ	ļ
			loam, loamy	!		!				!	!	!	ļ	ļ	ļ
			fine sand	!		!				!	!	!	ļ	ļ	ļ
		17-28		SP-SM,	SM		, A-3,	0	0-1	95-100	90-100	50-80	5-30	0-20	NP-3
			sand, loamy			A-2									
			fine sand												
		28-80	Loam, clay loam	CL, CL-	ML	A-6,	A-4	0-1	0-5	95-100	85-95 	75-90	50-75	25-40	5-20
Kratka	10	0-11	  Fine sandy loam	  SC-SM,	SM	A-4		l I   0	l   0	  95-100	  90-100	  50-80	  35-50	0-25	  NP-10
	i	11-18	Loamy sand,	SW-SM,	SP-SM,	A-2-4	, A-3	i o i	0	95-100	90-100	50-80	5-35	0-20	NP-3
			sand, loamy	SM	•	i	-	i i	i	i	i	i	i	i	i
			fine sand	i		i		j i	i	i	i	i	i	i	i
i		18-25	Loamy sand,	SW-SM,	SM.	A-2-4	, A-2,	i o i	0	95-100	90-100	50-80	i 5-35	0-20	NP-3

A-3

A-6, A-4

A-4, A-6

A-4, A-6

A-6, A-4

0-1

0-1

0-1

0-1

0-5

0-5

0-5 |95-100|85-95 |75-90 |50-75 |25-40

0-5 |95-100|85-95 |75-90 |50-75 |25-40

|95-100|80-100|80-100|60-90 |20-40

95-100 85-95 75-90 50-75 25-40

sand, fine

25-80 | Clay loam, loam | CL-ML, CL

14-20 | Loam, clay loam | CL, CL-ML

20-80 | Clay loam, loam | CL, CL-ML

sand

0-14 | Loam

Roliss-----

SP-SM

CL, CL-ML

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

   Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Frag	ments	•	rcentage sieve n	_	-	  Liquid	   Plas-
and	map unit				1	>10	3-10					limit	
component name			İ	Unified	AASHTO	inches	inches	4	10	40	200	<u>i</u>	index
		In	!			Pct	Pct					Pct	ļ
I70A:	 	 	 	 	 		 	 	 	 	 		 
Grimstad	5	0-9	Fine sandy loam	SC-SM, SM	A-2-4, A-4	0	0	95-100	95-100	65-90	20-50	0-30	NP-10
 		9-22   	Loamy sand, loamy fine sand, fine sand	SM, SC-SM	A-2-4, A-4   	0	0   	100   	95-100     	65-85   	15-50   	15-25   	NP-10   
     		22-28   		  sw-sm, sm     	  A-2, A-2-4,   A-3 	   0   	   0     	   100     	  95-100     	  80-90   	   5-35   	0-20     	  NP-3     
į		28-60	Loam, clay loam	CL, CL-ML	A-4, A-6 	0-1	0-5 	95-100 	  85-95 	75-90	50-75 	25-40	5-20
Mavie	3	0-12	Fine sandy loam	SM, SC-SM	  A-4	0	0-3	95-100	90-100	50-80	35-50	0-25	NP-10
i !			Loam, fine sandy loam, sandy loam	SM, CL-ML, SC-SM, SC	  A-4, A-6   	0   		•				20-35	
		18-39     	Very gravelly   coarse sand,   very gravelly   sand, very   gravelly loamy   sand	SP-SM, SP, GP, GP-GM	A-1         	0       	2-5         	30-65         	15-45         	5-40     	0-10         	0-20         	NP-3         
ļ	 	39-80 	Clay loam, loam	CL-ML, CL 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Rosewood	3	0-8	Fine sandy loam	SC-SM, SC, SM	A-2-4, A-4	j 0	j 0	95-100	95-100	65-90	30-50	0-25	NP-10
   		8-18   	Fine sandy   loam, sandy   loam, loamy   fine sand	SM, SC-SM     	A-2-4, A-4     	0     	0     	  95-100     	95-100     	65-85   	15-50     	20-30     	NP-10     
   		18-80 	Fine sand, sand	SM, SP-SM   	A-1, A-2-4,   A-3	0   	0   	85-100   	75-100   	45-75   	5-35 	0-20	NP-3   
Strathcona,			i I	! 	i i	i	i	i	i	İ	ŀ	¦	i
depressional	3	0-10	Mucky fine   sandy loam	CL-ML, ML,	  A-4 	0	   0 	  95-100 	  90-100 	70-85	  40-55 	0-25	  NP-10 
   		10-17 		SM, SC-SM   	  A-2-4, A-4   	0     	   0   	  95-100     	  95-100     	65-85   	  15-50   	20-30   	  NP-10     
		   17-28 	!	SM, SP-SM	  A-2-4, A-3,   A-2	0	   0-1 	  95-100   	  90-100 	50-80	5-30	0-20	  NP-3 
ļ		28-80	Clay loam, loam	CL-ML, CL	  A-6, A-4	0-1	0-5	95-100	  85-95	75-90	50-75	25-40	5-20

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	   Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	_	ng	  Liquid	   Plas-
and	map unit					>10	3-10	l				limit	ticity
component name			L	Unified	AASHTO	inches	inches	4	10	40	200		index
		In				Pct	Pct					Pct	
I71A:	! 	l İ	I I	 	 	 	l I	 	l İ	l I	l I	ŀ	l I
Berner, ponded	45	0-28	Muck	PT	A-8	0	0	100	100	j	j	j	j
	ĺ	28-31	Sandy loam,	SC, SC-SM, SM	A-2, A-4	0	0	90-100	70-100	50-85	10-50	15-25	NP-10
			fine sandy										
			loam, gravelly									[	
	<u> </u>		sandy loam										
		31-44	Sand, loamy	SP-SM, SM, SP	A-2, A-3	0	0	90-100	70-100	60-80	0-25	0-20	NP-3
	 	 	sand, gravelly sand	 	 			 	 	 			
	! !	l   44-60	Loam, clay loam	I Іст.=мт. ст.	  A-6, A-4	   0-1	l l 0-5	   95_100	I  85-95	   75_90	  50-75	125-40	   5-20
	i I	44-00 			N-0, N-1	0-1	0-3 	33-±00 	05-55 	75-50 	30-73 	25-40	J-20 
Cathro, ponded	45	0-11	Muck	PT	A-8	j 0	0	100	100	i	i	i	i
	j	11-23	Muck	PT	A-8	0	0	100	100	j	j	j	j
	l	23-60	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	!	!		!	!			!	!	!		!	
Hamre	2		Muck	PT	A-8	0	0	100	100				
	ļ	13-18	Loam, clay	CL-ML, CL	A-4, A-6	0-1	0-3	90-100	80-100	70-100	50-90	25-40	5-20
	l I	l I	loam, silt   loam	l I	l I	 		 	l I	 	 		 
	! 	   18-60	Loam, clay loam	CL-ML, CL	  A-6, A-4	0-1	0-5	  95 <b>-</b> 100	  85-95	  75-90	  50-75	  25-40	5-20
	!	!	1	ļ.	ļ.	!		!	ļ .	!	ļ.	İ	ļ.
Kratka	2	•	Fine sandy loam		A-4	0			90-100			1 .	NP-10
	ļ	1 11-18	Loamy sand, sand, loamy	SM, SW-SM,	A-2-4, A-3	0	0	195-100	90-100	50-80	5-35	0-20	NP-3
	! !	l I	fine sand	5P-5M 	 	 	l I	l I	l I	l I	l I	I I	l I
	i i	l   18-25	Loamy sand,	SM, SW-SM,	  A-2-4, A-2,	l l 0	l l 0	I   95-100	  90-100	I   50-80	   5-35	0-20	NP-3
	i	i	sand, fine		A-3	i		i	İ	i	i	i	i
	j	į	sand	j	j	į	İ	İ	į	į	į	İ	į
		25-80	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Northwood	l l 2	l l 0-9	  Muck	  PT	  A-8	l l 0	l l 0	   100	   100	 			 
	i	9-14	Fine sandy	SC-SM, SM	A-2, A-4	0	0-3	95-100	90-100	50-85	15-50	0-25	NP-10
	j	į	loam, loamy	İ	j	į	į	į	į	į	į	İ	į
	l		fine sand,										
	l		loamy sand										
	!	14-24		SM, SP-SM	A-2, A-3	0	0-3	95-100	80-100	70-95	5-35	0-15	NP-3
	ļ		fine sand,									!	
	l I	 	loamy fine sand	l I	l I			 	 	 	 		 
	! 	24-80	Clay loam, loam	CL-ML, CL	  A-6, A-4	0-1	   0-5	  95-100	  85-95	  75-90	  50-75	25-40	   5-20
	ļ	İ	İ	į	ļ	ļ	l	1	ļ	l	I	ļ.	ļ.
Roliss	2	0-14	•	CL, CL-ML	A-4, A-6	0-1		•	80-100		•	•	5-20
	ļ		Clay loam, loam		A-4, A-6	0-1			85-95				5-20
	 	20-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95 	75-90	50-75	25-40	5-20
	   		Clay loam, loam  Clay loam, loam 		A-4, A-6  A-6, A-4 	0-1   0-1 			85-95  85-95 				

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	   Depth	USDA texture	Classif	ication	Fragr		•	rcentage sieve n	_	_	  Liquid	•
and	map unit	 		   Unified	AASHTO	>10	3-10 inches	   4	1 10	l 40	I 200	limit	ticity
component name	l	   In	1	Unified	AASHTO	Pct	Pct	<del>4</del> 	l 10	40 	200 	l Pct	Index
	i	l		! [	! [	100	100	! 	i İ	i İ	ŀ	100	i
I71A: Seelyeville,	İ	   	   	   	 	   		i I	   	i I	İ	İ	   
ponded	2	0-10	Muck	PT	A-8	0	0	100	100	i	i	i	i
	 	10-80   	Muck, mucky   peat 	PT   	A-8   	0   	0   	100   	100   	   		   	   
I72A:	i	İ	i	İ	İ	i	i	i	i	i	i	i	i
Pelan	65	0-6	Sandy loam	SC-SM, SM	A-4	0	0-5	85-100	85-95	65-85	35-50	15-35	NP-10
	 	6-9   	Fine sand,   sand, loamy   fine sand	SP-SM, SM   	A-1, A-2, A-3   	0   	0-2   	95-100   	95-100   	45-75   	5-30   	0-20   	NP-3   
	     	9-14       	Very gravelly   sandy loam,   very gravelly   sandy clay   loam	GM, SM, GC,   SC   	A-1, A-2       	0       	2-5	45-85       	25-50     	10-45       	5-35       	20-30	NP-10       
	         	14-20         	Very gravelly   sand, very   gravelly   coarse sand,   very gravelly   loamy sand	SP-SM, SP,   GP, GP-GM     	A-1             	0         	2-5	30-65           	15-45           	5-40         	0-10         	0-20         	NP-3         
	i I	20-60	Clay loam, loam	CL, CL-ML	A-6, A-4	   0-1 	0-5	95-100 	85-95 	75-90 	  50-75 	  25-40 	5-20
Smiley	10	0-12	Loam	CL, CL-ML, ML	A-4, A-6	0-1	0-2	95-100	  85-100	70-95	50-80	15-35	2-12
	 	12-19   	Clay loam, loam, silty clay loam	  CT	A-6   	0-1   	0-3 	95-100   	85-100   	70-95   	50-80   	25-40   	10-20   
	!	•	Loam, clay loam	•	A-4, A-6	0-1		•	85-95		•	•	5-20
	 	42-80 	Loam, clay loam 	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 
Linveldt	8	0-9	Fine sandy loam	SM, SC-SM	A-2-4, A-4	0	0-5	95-100	95-100	65-90	20-50	0-25	NP-10
	 	9-16   	!	CL, CL-ML,   SC, SC-SM 	A-2-4, A-4   	0-1   	0-5   	95-100   	80-100   	50-90   	25-75   	20-30   	5-10   
	   	16-29   	Loamy sand,   sand, coarse   sand	SP-SM, SM,   SC-SM 	A-1, A-2, A-3   	0-1   	0-5   	65-100   	55-100   	30-80   	5-30   	0-20   	NP-3   
		29-45	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	 	45-80 	Loam, clay loam	CL, CL-ML 	A-6, A-4 	0-1 	0-5 	95-100 	85-95 	75-90 	50-75 	25-40 	5-20 

Map symbol	Pct. of	Depth	USDA texture	Classif 	ication	Fragi	ments		rcentag	_	ng	  Liquid	   Plas-
and .	map unit					>10	3-10					limit	
component name	L	In	<u> </u>	Unified	AASHTO	Inches   Pct	inches   Pct	4	10	40	200	Pct	index
		111	 	 	 	l PCC	PGL 	 	! !	! 	 	PCL	 
I72A:			i	İ	i	İ	i	i	i	i	i	i	i
Kratka	5	0-11	Fine sandy loam	SC-SM, SM	A-4	0	0	95-100	90-100	50-80	35-50	0-25	NP-10
		11-18	Loamy sand,   sand, loamy   fine sand	SP-SM, SM,   SW-SM 	A-2-4, A-3   	0   	0   	95-100   	90-100   	50-80   	5-35   	0-20	NP-3   
		18-25	1	  SW-SM, SP-SM,   SM 	A-2-4, A-2,   A-3	   0 	   0 	  95-100   	  90-100   	  50-80   	   5-35   	0-20	  NP-3   
	İ	25-80	Loam, clay loam	CL-ML, CL	A-6, A-4	0-1	0-5 	  95-100	85-95 	75-90 	50-75 	25-40	5-20 
Strandquist	   5	0-10	Loam	CL, CL-ML	  A-4	0	0	95-100	  80-100	  75-90	  50-75	20-30	   5-10
		10-20	Gravelly sand, gravelly coarse sand, very gravelly sand	GW-GM, SP-SM, SP, GP, GP-GM	A-1       	0       	2-5       	30-65       	15-45         	5-40       	0-10       	0-20       	NP-3       
		20-60	Loam, clay loam	CL, CL-ML	A-6, A-4	0-1	0-5 	  95-100 	  85-95 	75-90	  50-75 	25-40	5-20
Reiner	4	0-7	Fine sandy loam	SC-SM, SM	A-4	0	0-5	85-100	85-95	65-85	35-50	15-35	NP-10
		7-17 	Clay loam,   loam, sandy   clay loam	    CT	A-6   	0   	0-3   	85-100   	75-100   	60-95   	55-80   	25-40   	10-20   
j	į į	17-35	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		35-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1 	0-5 	95-100 	85 <b>-</b> 95 	75-90 	50-75 	25-40	5-20 
Eckvoll	3	0-9	Loamy fine sand	SM, SC-SM	  A-2	0-1	0-2	90-100	  85-100	  65-80	15-30	0-20	  NP-5
		9-25	Fine sand,   sand, loamy   fine sand	SP-SM, SM   	A-1, A-2, A-3    	0   	0-2   	95-100   	95-100   	45-75   	5-30   	0-20   	NP-3   
		25-32	Clay loam,   sandy clay   loam, loam	CL, SC	A-6   	0   	0-5   	90-100   	75-100   	60-95   	45-75   	25-40	10-20   
	İ	32-80	Clay loam, loam	CL, CL-ML	A-6, A-4 	0-1	0-5 	  95-100 	85-95 	75-90 	50-75 	  25-40 	5-20 
I73A:				j !	j  -		<u> </u>		 				 
Boash	75   			CL, CH   	A-6  A-7 	0-1   0-1 						30-45  40-70 	
	i i	29-80	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
			I	l			l		I	I	I		

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	   Depth	USDA texture	Classif	ication	Fragi	ments		rcentag sieve n	e passi: umber	ng	  Liquid	   Plas-
and	map unit	į -	į	İ	1	>10	3-10	i 				limit	ticity
component name	j -	İ	į	Unified	AASHTO	inches	inches	4	10	40	200	i	index
		In	Ī	ĺ	Ī	Pct	Pct	ĺ	İ	Ī	l	Pct	İ
		!	ļ.	!	!	ļ	ļ	ļ	ļ.	!	!	ļ	ļ.
173A:	_			!	ļ _								
Clearwater	8	•	Clay	CL, CH	A-7	0-1				90-100	•		
		8-35	Clay, silty	CL, CH	A-7	0-1	0-3	95-100	95-100	90-100	70-95	40-70	20-45
			clay, silty	!		ļ	!	!	!	ļ	!	ļ	!
			clay loam	!		ļ	!	!	!	!	!		!
		35-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty	!		ļ	!	!	!	!	!		!
	 	  -	clay loam					 			 		
Roliss	l 8	   0-14	Loam	CL, CL-ML	  A-4, A-6	   0-1	   0-5	  95-100	  80-100	  80-100	I  60-90	  20-40	   5-20
	j i	14-20	Loam, clay loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
	j i	20-80	Clay loam, loam	CL, CL-ML	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
							I		l				
Clearwater,							!						
depressional	5	•	Mucky clay loam	•	A-6	0				80-95			
		8-35	Clay, silty	CH, CL	A-7	0-1	0-1	95-100	95-100	90-100	70-95	40-70	20-45
		ļ	clay, silty			ļ	!	!	!	!	!	ļ	!
			clay loam	!	ļ _								
		35-80	Silty clay,	CH	A-7	0-1	0-3	95-100	95-100	90-100	75-95	40-70	20-45
			clay, silty		ļ	ļ	ļ	!	ļ	ļ	ļ		ļ
	 	 	clay loam	 	l I	l I	 	 	 	 	 	 	 
Kittson	2	0-10	Loam	CL, CL-ML	A-4, A-6	0	0	1 100	  95-100	  85-95	  50-75	  20-35	   5-15
	j i	10-17	Loam, fine	CL, SC	A-4	0	0-5	90-100	65-100	55-90	35-75	20-35	5-10
			sandy loam,										
			sandy loam										
		17-36	Clay loam, loam	CL, CL-ML	A-4, A-6	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
		36-60	Clay loam, loam	CL-ML, CL	A-6, A-4	0-1	0-5	95-100	85-95	75-90	50-75	25-40	5-20
Newfolden	   2	   0-7	  Loam	  CL-ML	  A-4, A-6	l l 0	l I o	   100	   05_100	  85-95	  60-75	120-35	   5-15
Newlolden	<del>2</del>		Clay, silty	CL, CH	A-7	I 0	1 0	1 100		90-100			20-40
		/-10 	clay, silty	l en	A - /	i	"	±00	±00	JU-100	75-55 	<del>1</del> 0-05	20 - 40 
	! !	l I	clay loam	<u> </u>	i i	İ	i	! 	! 	! 	i i	i i	! !
	i i	l   16-36	Clay loam, loam	CL-ML, CL	A-4, A-6	0-1	l l 0-5	  95-100	ı  85-95	  75-90	l  50-75	25-40	l   5-20
	i	•	Loam, clay loam		A-6, A-4	0-1				75-90			5-20
	İ	ĺ	İ	ĺ	İ	İ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ
I74A:		ļ				ļ	ļ	ļ		ļ	ļ	ļ	ļ
Urban land	65												
Endoaquents	l 35	l I	 	l I	 	 	l I	l I	l I	 	l I	 	 
	55	! 		İ		i	i	i	i	i	İ	i	i

0 0 100 95-10050-80 5-35 0-20 NP-3

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	i	ments	•	rcentag sieve n	_	-	  Liquid	
and component name	map unit	 		   Unified	   AASHTO	>10  inches	3-10  inches	   4	l 10	l 40	l 200	limit	ticity  index
component name		In	1			Pct	Pct					Pct	
175A:		 			 		 		 	 	 		 
Radium	l 40 I	   0-14	Loamy sand	SM, SW-SM	  A-2-4	l l 0	l I 0	  95-100	ı  95–100	  50-70	   5-25	0-20	NP-5
		14-33   	Sand, loamy   sand, gravelly   loamy coarse   sand		  A-1, A-2, A-3   	0     	0-5     	75-100       	  65-95     	35-60     	3-15     	0-20     	NP-3     
		33-43   	Gravelly sand,   gravelly   coarse sand,   very gravelly   coarse sand	GW, GW-GM,   SP, SP-SM   	<mark>a-1</mark>       	0       	0-5     	45-90       	30-75       	15-40       	0-10       	0-20       	NP-3       
		43-80	•	SP-SM, SM, SW-SM	A-1, A-2, A-3     	0     	0-5   	85-100     	75-95     	40-75     	5-20   	0-20	NP-3   
Sandberg	20	0-12	Loamy sand	SP-SM, SM	A-1, A-2-4	0	0-5	85-100	  50-95	40-75	10-25	0-20	NP-5
		12-19     	Gravelly loamy   coarse sand,   gravelly   coarse sand,   loamy sand	SP-SM, SM       	A-1, A-2, A-3       	0       	0-5     	60-95       	50-95       	35-70       	5-25       	0-20       	NP-3       
		19-29   	Gravelly coarse   sand, coarse   sand, sand	SP, SW-SM,   SP-SM 	A-1, A-2, A-3   	0   	0-5   	50-95   	40-95   	30-65   	0-10   	0-20   	NP-3   
		29-80   	Gravelly coarse sand, coarse sand, sand	SP-SM, SW-SM, SP	A-1, A-2, A-3     	0     	0-5   	50-95     	40-95     	30-65     	0-10   	0-20	NP-3   
Garborg	15	0-12	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	  95-100	50-80	15-35	0-20	NP-5
	 	12-41   		SC-SM, SM, SP-SM	A-2-4     	0     	0     	100     	95-100     	50-80     	10-35     	0-20	NP-3   
		41-59	•	SC-SM, SM,	  A-3, A-2-4 	   	0	100 	95-100 	50-80 	5-35	0-20	NP-3 

|SC-SM, SP-SM, |A-2-4

SM

loamy fine sand

loamy sand,

loamy fine sand

| 59-80 | Fine sand,

Table 23.--Engineering Index Properties--Continued

Table 23.--Engineering Index Properties--Continued

Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi		•	rcentag sieve n	_	_	  Liquid	
and	map unit		ļ.	[	<u> </u>	>10	3-10	ļ				limit	
component name				Unified	AASHTO		inches	4	10	40	200	l	index
		In				Pct	Pct					Pct	
I75A:			l I	 	 	 	 	 	 	l I			 
Oylen	10	0-10	Sandy loam	SC-SM, SM	A-2-4, A-4	0	0	100	85-100	60-85	25-45	0-20	NP-5
		10-18	Loam, sandy	SC-SM, CL,	A-4	0	0	100	85-100	60-85	35-60	20-30	5-10
			loam	CL-ML, SC									
		18-38	Loamy sand, sand, sand, sand	SM, SP-SM   	A-2-4, A-3   	0 	0   	90-100   	70-100 	35-65 	5-20 	0-20	NP-3 
		38-80	•	SP-SM, SP	  A-1-b, A-2-4,	l l 0	l l 0	  90-100	  60-100	  35-55	   3-10	0-20	NP-3
			coarse sand	   	A-3	   		   	   				
Flaming	l 5	0-12	Loamy fine sand	SC-SM, SM	  A-2-4	l   0	l l 0	   100	  95-100	  65-80	  15-30	0-20	  NP-5
	i i I I	12-17	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3   	0 	0   	100   	95-100   	50-80   	5-30 	0-20   	NP-3   
	 	17-27	Fine sand,   loamy sand,   sand	SW-SM, SM   	A-2-4, A-3   	   0 	0   	100   	95-100   	50-80   	5-30 	0-20   	NP-3   
		27-60	Fine sand,   loamy sand,   sand	SM, SW-SM   	A-2-4, A-3   	0   	     	100   	95-100     	50-80     	5-30   	0-20   	NP-3   
Karlsruhe	l 3	0-15	  Sandy loam	  SC, SM, SC-SM	  A-4, A-2	l l 0	l   0-3	  95-100	  85-100	  55-90	  15-50	l   0-25	  NP-10
				SM, SC, SC-SM		   0 			85-100 				NP-10 
		30-60	Coarse sand,   gravelly   coarse sand,   gravelly sand	SP, SM, GP,   GP-GM, SP-SM   	•	0     	0-5     	45-90       	30-80       	20-70     	0-15     	0-20     	NP-1     
Venlo	3	0-13	  Fine sandy loam	SM, SC-SM	  A-2-4, A-4	0	l   0	1 100	  95-100	  50-85	30-50	0-25	  NP-5
		13-60	Fine sand,   loamy sand,   loamy fine   sand	SP-SM, SM,   SC-SM 	A-3, A-2-4     	0       	0     	100       	95-100       	50-80     	5-35     	0-20       	NP-3     
Hangaard	2	0-10	Sandy loam	  SM	  A-2-4, A-4	0	   0-3	  95-100	  80-100	  50-75	15-45	0-25	  NP-10
-		10-15	Loamy sand, coarse sandy loam, loamy coarse sand	SM, SP-SM     	A-1, A-2-4,   A-3 	0     	0-3     	  95-100     	80-95     	40-70     	5-25     	0-20     	NP-5     
		15-80	Gravelly coarse sand, gravelly sand, coarse sand		  A-1, A-2, A-3   	0     	0-3   	70-95     	  55-90     	30-60     	0-10     	0-20     	NP-3   

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Map symbol	Pct. of	Depth	USDA texture	Classif	ication	Fragi	ments	•	rcentag sieve n	_	_	  Liquid	   Plas-
and	map unit	-	į			>10	3-10	i 				limit	•
component name			İ	Unified	AASHTO	inches	inches	4	10	40	200	<u>i</u>	index
		In	ļ.	ļ.	ļ	Pct	Pct	ļ	ļ	ļ	ļ	Pct	ļ
I75A:			l I	 	l I	 	 	 	 	 	 		 
Sioux	2	0-5	Sandy loam	SM	A-4	0	0-5	95-100	80-100	60-85	35-45	0-25	NP-10
j		5-8	Gravelly loam,	GM, SM	A-1, A-2, A-4	0	0-5	60-90	50-80	45-70	15-50	0-25	NP-5
I			gravelly sandy		[								
I			loam, gravelly										
			loamy sand										
		8-60		GP-GM, SP-SM,	A-1, A-2	0	0-5	25-75	20-60	5-35	0-25	0-25	NP-5
			gravelly sand,		<u> </u>				!			!	
			very gravelly	GM	!	!	!		!	!	!	!	ļ
			loamy sand,			!	!	!	!	ļ	ļ.	!	ļ
			very gravelly			ļ	!	ļ	ļ	ļ	!	!	ļ
			sand						ļ		!		
M-W.				 			 	 					
m-w. Miscellaneous			l i	 	1	 	 	l I	 				
water		l I	I I	l I	I I	l I	 	l I	!	!	-		
water		l I	 	 	1	l I	l I	l I	l I	l I	i i	l I	l I
w. I			l I	 		l I	 	l I	i i	! !			 
Water			 	! 	! 	! 	! 	l I	<u> </u>	i i			i i
		i		<u> </u>		<u>'</u>	<u>'</u>	' 	i	i	i		i

Table 23.--Engineering Index Properties--Continued

Table 24.--Physical Properties of the Soils

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated)

Map symbol and	Pct. of	   Depth	   Clav	   Moist	Permea-	  Available	   Timesm	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind
'	map unit		Clay	Moist     bulk		water	extensi-					bility	
component name	map unit		l I	Dulk     density	bility	capacity	bility	matter	l Kw	   Kf	 	group	•
									KW	KE	T	group	Index
 		In	Pct	g/cc	In/hr	In/in	Pct	Pct			!		
  B109A:			l I			 	 	 			l I	l I	¦
Bowstring	45	l 0-38	l l 0-5	  0.15-0.35	0.20-6.00	0.35-0.45		   40-90	.02	.02	2	   8	i 0
20202 2229	-5	38-47		11.40-1.60		0.08-0.14		2.0-10	1.17	.20	i -		
ļ	i	47-80		0.15-0.35				40-90	.02	.02	i	i	i
	i		" "		0.120 0.00		i		**-	102	i	i	i
Fluvaquents	40	0-16	5-15	1.20-1.50	2.00-20	0.16-0.24	0.0-2.9	3.0-10	.20	.20	5	5	56
į	İ	16-80	1-27	1.40-1.65	0.60-20	0.04-0.20	0.0-2.9	0.5-3.0	.17	.20	İ	İ	İ
j	İ		ĺ	į į		Ì	ĺ	ĺ	İ	ĺ	ĺ	İ	İ
Hapludalfs	5	0-6	10-18	1.30-1.45	2.00-6.00	0.16-0.18	0.0-2.9	0.5-2.0	.20	.20	5	3	86
J		6-8	5-15	1.30-1.55	2.00-20	0.10-0.18	0.0-2.9	0.2-1.0	.20	.20			
ļ		8-25	18-35	1.25-1.65	0.20-2.00	0.15-0.19	3.0-5.9	0.2-1.0	.37	.37			
ļ		25-80	10-27	1.30-1.60	0.60-6.00	0.14-0.19	0.0-2.9	0.0-0.5	.32	.32			[
	_ !						ļ						
Seelyeville	5	0-10	'	0.10-0.25		•		75-99	.02	.02	3	2	134
 		10-80	0-0 	0.10-0.25	0.20-6.00	0.35-0.48		75-99	.02	.02			
Water	5		 				ļ	ļ		!	ļ -		ļ
B200A:		 	l I	 		 	 	 	 	 	 	l I	 
Garnes	70	0-6	5-15	1.10-1.35	2.00-6.00	0.16-0.18	0.0-2.9	0.5-3.0	.20	.24	5	3	86
		6-9		1.35-1.55		0.05-0.12		0.2-1.0	.15	.15	i	i	i
i	i	9-14	18-30	1.50-1.65	0.60-2.00	0.17-0.20	3.0-5.9	0.2-1.0	.32	.32	i	i	i
i	i	14-72		1.35-1.55				0.0-0.5	.37	.37	i	i	i
j	i	72-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	İ	i	İ
Chilgren	   13	   0-4	   E 10	  1.30-1.60	2.00-6.00	10 16 0 10		1.0-3.0	1.28	   .28	   5	   3	   86
Chilgren	13	0-4   4-10	'	1.30-1.60   1.35-1.55	6.00-20	0.05-0.12		0.2-1.0	1 .15	.28	l o	] 3 	1 00
l I		4-10   10-18		1.50-1.65				0.2-1.0	1 .32	32		 	!
ļ		18-72	'	1.35-1.55		0.15-0.19		0.0-0.5	37	37	:	l I	!
ļ		10-72   72-80		1.35-1.55   1.35-1.55				0.0-0.5	37	1.37		I I	
ļ		7 <u>2</u> -00 	10-30 		0.00-2.00		1.0-4.2	1	1 .37	•3, 	ŀ	i	ŀ
Eckvoll	5	0-9	2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	0.5-3.0	.17	.17	5	2	134
į	i	9-25	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-1.0	.15	.15	i	i	i
į	i	25-32	18-35	1.40-1.70	0.20-2.00	0.16-0.18	3.0-5.9	0.1-1.0	.37	.37	i	i	i
į	i	32-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	i	į	i
I			l	<u> </u>		!	!	!	İ	ļ.	ļ	!	ļ.
Garnes, very stony	5	0-6		1.30-1.50		•		0.5-3.0	.32	.32	5	6	48
!		6-9		1.35-1.55		0.05-0.12		0.2-1.0	.15	.15	ļ		!
!		9-14		1.50-1.65		•		0.2-1.0	.32	.32	ļ	ļ	ļ.
J		14-72   72-80		1.35-1.55   1.35-1.55		0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			!
								0.0-0.5	.37	.37			

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fact	tors	Wind  erodi-	Wind  erodi
component name	map unit		 	bulk	bility	water	extensi-   bility	matter	Kw	   Kf	   т	bility  group	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	į		İ		į
B200A:			 	 			 	 	 	 	 	 	 
Grygla	4	0-6	2-15	1.40-1.60	6.00-20	0.13-0.15	0.0-2.9	1.0-4.0	1.15	.15	5	2	134
		6-26	1-10	1.50-1.70	6.00-20	0.06-0.11	0.0-2.9	0.5-1.0	1.15	.15			
		26-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	
Pelan	3	0-6	   5-15	  1.10-1.35	2.00-6.00	0.13-0.15	0.0-2.9	1.0-3.0	.20	.24	   5	3	86
		6-9		1.35-1.55		0.05-0.12		0.2-1.0	.15	.15			
				1.45-1.65		0.03-0.11		0.2-1.0	.20	.24			
		14-20	•	1.50-1.70		0.02-0.07	•	0.0-0.5	.05	.15			
		20-60	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2 	0.0-0.5 	37	.37 	 	 	
B201A:	i			i i		İ			i	İ	İ		İ
Chilgren	75	0-4			2.00-6.00			1.0-3.0	.28	.28	5	3	86
		4-10	•	1.35-1.55		0.05-0.12	•	0.2-1.0	.15	.15			
		10-18			0.60-2.00			0.2-1.0	.32	.32			!
		18-72			0.60-2.00			0.0-0.5	•	.37	!	ļ	!
		72-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2 	0.0-0.5 	37	.37 	 	l	 
Garnes	9	0-6			2.00-6.00				.20	.24	5	3	86
		6-9		1.35-1.55		0.05-0.12		0.2-1.0	1.15	.15			
			•		0.60-2.00	•	•	0.2-1.0	.32	.32			!
		14-72	•	' '	0.60-2.00	'		0.0-0.5	.37	.37	!	ļ	!
	 	72-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2 	0.0-0.5 	.37 	.37 	 	l I	 
Grygla	5	0-6	•	  1.40-1.60		0.13-0.15			.15	.15	5	2	134
		6-26		1.50-1.70		0.06-0.11		0.5-1.0	1.15	.15			
		26-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	 	 	
Grygla, depressional	5	0-6	   2-15	  1.40-1.60	6.00-20	0.13-0.15	0.0-2.9	   3.0-15	1 .15	.15	   5	2	134
		6-26	1-10	1.50-1.70	6.00-20	0.06-0.11	0.0-2.9	0.5-1.0	1.15	.15			
		26-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Hamre		0-13	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	.02	   5	2	134
		13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32			
		18-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
		35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		ļ	
Pelan	1	0-6	   5-15	  1.10-1.35	2.00-6.00	0.13-0.15	   0.0-2.9	   1.0-3.0	.20	   .24	   5	3	   86
i	i	6-9	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.15	.15	İ	İ	İ
İ	İ	9-14	15-25	1.45-1.65	6.00-20	0.03-0.11	0.0-2.9	0.2-1.0	.20	.24	İ	İ	İ
İ	ı İ	14-20	1-5	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.15			
	ı İ	20-60	18-30	1.35-1.55	0.60-2.00	10.15-0.19	1.0-4.2	0.0-0.5	i .37	.37	I	I	I

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	   Clay	Moist	Permea-	  Available		   Organic	LETOSIO	. Tac		erodi-	
component name	map unit		!	bulk	bility	water	extensi-	matter	ļ			bility	
				density		capacity	bility	<u> </u>	Kw	Kf	T	group	index
	ļ	In	Pct	g/cc   	In/hr	In/in	Pct	Pct		 	 		
B202A:	i i		 				! 	! 	i	 	l I	İ	i
Cathro	80	0-11	0-0	0.10-0.35	0.20-6.00	0.35-0.48	j	75-95	.02	.02	2	2	134
į	i	11-23	0-0	0.10-0.35	0.20-6.00	0.35-0.48	j	85-95	.02	.02	İ	İ	İ
į	į	23-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-1.0	.37	.37	į	į	į
   Hamre	8 I	0-13	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	1 .02	   .02	   5	   2	134
į	i	13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32	i	i	i
į	i	18-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	i	i	i
į	į	35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Chilgren	3 l	0-4	   5-18	  1.30-1.60	2.00-6.00	0.16-0.18	   0.0-2.9	   1.0-3.0	1 .28	   .28	   5	   3	   86
	i	4-10		1.35-1.55		0.05-0.12		0.2-1.0	.15	.15	i	i	i
į	i	10-18	18-30	1.50-1.65	0.60-2.00	0.17-0.20	3.0-5.9	0.2-1.0	.32	.32	i	i	i
į	i	18-72	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	i	i	i
į	į	72-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Northwood	3 l	0-9	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	1 .02	   .02	   4	   2	134
į	i	9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15	i	i	i
į	i	14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.15	.15	i	i	i
į	į	24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
   Berner	2	0-28	   0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	   75-95	.02	   .02	   2	   2	134
į	i	28-31	5-15	1.25-1.45	2.00-6.00	0.10-0.18	0.0-2.9	2.0-10	.17	.24	İ	İ	İ
į	i	31-44	0-5	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.1-0.5	.05	.15	İ	İ	İ
į	į	44-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
  Grygla	2	0-6	   2-15	  1.40-1.60	6.00-20	0.13-0.15	   0.0-2.9	   1.0-4.0	1 .15	   .15	   5	   2	134
	i	6-26	1-10	  1.50-1.70	6.00-20	0.06-0.11	0.0-2.9	0.5-1.0	.15	.15	i	i	i
į	į	26-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
  Seelyeville	2	0-10	   0-0	  0.10-0.25	0.20-6.00	0.35-0.48	 	   75-99	1 .02	   .02	   3	   2	134
į	į	10-80	0-0	0.10-0.25	0.20-6.00	0.35-0.48	<u> </u>	75-99	.02	.02	į	į	į
B203A:	l I		 	 		 	 	 	 	 	 	 	 
Northwood	75 I	0-9	0-0	0.10-0.40	0.20-6.00	0.35-0.48	i	50-95	.02	.02	4	2	134
i	i	9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15	İ	i	İ
į	i	14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.15	.15	İ	İ	İ
į	į	24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ļ		
   Hamre	10	0-13	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	   .02	   5	2	134
i	i	13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32	İ	İ	İ
i	i	18-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	İ	İ
'		35-80		1.35-1.55		0.15-0.19	1 1 0 4 0	0.0-0.5	.37	.37			1

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available	Lincar	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind
component name	map unit	   Debru	l Cray	Moist     bulk	bility	water	extensi-	organic	ļ			erodi-  bility	•
	map unit		I I	density	DITICY	capacity	bility	Maccel	Kw	   Kf		group	•
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	Kw		<u>                                     </u>	 	
į	į		į	İ		į	į	į	į	į	į	į	į
B203A:   Grygla	7	   0-6	2_15	  1.40-1.60	6.00-20	0.13-0.15		1.0-4.0	.15	   .15	   5	   2	134
GIYGIA	,	0-6   6-26		1.40-1.60   1.50-1.70		0.13-0.13		0.5-1.0	1.15	1 .15	l o	<del>4</del> 	1 134
ļ		26-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.13	 	 	
   Berner	5 I	0-28		  0.10-0.35	0.20-6.00	0.35-0.48	 	75.05		   .02	   2	   2	   134
Berner	5	0-28   28-31		0.10-0.35   1.25-1.45		0.10-0.18		75-95 2.0-10	1 .17	1.04	<del>2</del> 	<u>4</u> 	1 134
		31-44		1.45-1.45   1.45-1.65		0.10-0.18		0.1-0.5	1 .05	1 .15	 	 	!
		44-80		1.45-1.65   1.35-1.55		0.15-0.19		0.1-0.5	.05	37	l I	 	!
i I		44-80 	18-30 	 	0.60-2.00		1.0-4.2	0.0-0.5	.3/	.3/	 	l I	
Chilgren	3	0-4			2.00-6.00	•		1.0-3.0	.28	.28	5	3	86
ļ		4-10		1.35-1.55		0.05-0.12		0.2-1.0	.15	.15			!
ļ		10-18		1.50-1.65		0.17-0.20		0.2-1.0	.32	.32			!
ļ		18-72		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37			!
		72-80	18-30	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	 	 	
B204A:										<u> </u>		¦	i
Roliss	75	0-14	18-27	1.10-1.50	0.20-2.00	0.17-0.24	3.0-5.9	3.0-8.0	.24	.24	5	4L	86
I		14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37			
		20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		ļ	
  Grygla	8	0-6	   2-15	  1.40-1.60	6.00-20	0.13-0.15	0.0-2.9	1.0-4.0	.15	   .15	   5	   2	1 134
i	i	6-26	1-10	1.50-1.70	6.00-20	0.06-0.11	0.0-2.9	0.5-1.0	.15	.15	i	į	i
į	İ	26-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Chilgren	5	   0-4	   5-18	  1.30-1.60	2.00-6.00	0.16-0.18	   0.0-2.9	1.0-3.0	.28	   .28	   5	   3	   86
		4-10		1.35-1.55		0.05-0.12		0.2-1.0	1.15	1.15	-	i	
i		10-18		1.50-1.65		0.17-0.20		0.2-1.0	.32	.32	i	i	i
i		18-72	•	1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	i	i	i
į	İ	72-80		1.35-1.55		0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
  Garnes	5	   0-6	   5-15	  1.10-1.35	2.00-6.00	  0.16=0.18	   0.0-2.9	0.5-3.0	1.20	   .24	   5	   3	   86
		6-9		1.35-1.55		0.05-0.12		0.2-1.0	1.15	1.15	-	i	
i		9-14		1.50-1.65		0.17-0.20		0.2-1.0	1.32	.32	i	i I	i
i		14-72		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	i	i	i
j	İ	72-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	İ	i	i
Roliss, depressional	5	   0-14	   15-27	  1.10-1.40	0.20-2.00	0.20-0.25	3.0-5.9	   3.0-15		   .24	   5	   6	   48
	, ,	14-20		1.10-1.40   1.35-1.55		0.15-0.19		1.0-3.0	37	37	, ,	i	1 -20
i		20-80		1.35-1.55		0.15-0.19		0.0-0.5	37	37			
					0.00.6.00								
Hamre	2	0-13		0.10-0.40		0.35-0.48		50-95	.02	.02	5	2	134
		13-18		1.25-1.50		0.17-0.22		2.0-10	.32	.32	ļ		
ļ		18-35 35-80		1.35-1.55   1.35-1.55		0.15-0.19		0.0-0.5	37	37	i i	 	1
!		33-80	1 10-20	1 22 - 1 - 22	0.00-2.00	10.12-0.19	1 1.0-4.2	1 0.0-0.5	1 .3/	.3/	I	I	1

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available	•	   Organic	Erosi	on fact		erodi-	Wind  erodi-
component name	map unit		!	bulk	bility	water	extensi-	matter	ļ	!		bility	
				density		capacity	bility	l	Kw	Kf	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
B205A:	! 		 	 		 	! 	 		 	 	 	
Berner	80	0-28	0-0	0.10-0.35	0.20-6.00	0.35-0.48		75-95	.02	.02	2	2	134
		28-31	5-15	1.25-1.45	2.00-6.00	0.10-0.18	0.0-2.9	2.0-10	.17	.24			
		31-44	0-5	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.1-0.5	.05	.15			
		44-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Northwood	   7	   0-9	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	.02	   4	2	134
	j i	9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15	ĺ	İ	İ
		14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.15	.15			
		24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Grygla	   5	   0-6	   2-15	  1.40-1.60	6.00-20	0.13-0.15	   0.0-2.9	   1.0-4.0	.15	   .15	   5	   2	134
	j i	6-26	1-10	1.50-1.70	6.00-20	0.06-0.11	0.0-2.9	0.5-1.0	.15	.15	i	i	i
	į	26-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Cathro	   3	   0-11	l l 0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	   75-95	1.02	   .02	   2	   2	134
	i	11-23		0.10-0.35		0.35-0.48	•	85-95	.02	.02	i	i	i
	į	23-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-1.0	.37	.37	į	į	į
Hamre	   3	   0-13	   0-0	  0.10-0.40	0.20-6.00	10.35-0.48	 	   50-95	1 .02	   .02	   5	   2	134
	i	13-18				0.17-0.22	•	2.0-10	.32	.32	i	i -	
	i	18-35			0.60-2.00	0.15-0.19	•	0.0-0.5	.37	.37	i	i	i
	į	35-80				0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Seelyeville	   2	   0-10	   0-0	  0.10-0.25	0.20-6.00	0.35-0.48	 	   75-99	1.02	   .02	   3	   2	   134
	i -	10-80			0.20-6.00	0.35-0.48	1	75-99	.02	.02	-	i	i
B206A:		 					 	 		 	 	 	 
Hamre	l 80	l   0-13	I I 0-0	ı   0 . 10 = 0 . 40	0.20-6.00	10.35-0.48	i	l 50-95	.02	.02	l I5	1 2	1 134
	i	13-18			0.20-2.00	0.17-0.22	•	2.0-10	.32		i	i -	
	i	18-35				0.15-0.19		0.0-0.5	.37	.37	i	i	i
	į	35-80				0.15-0.19	•	0.0-0.5	.37	.37	į	į	į
Chilgren	   8	   0-4	   5-18	  1.30-1.60	2.00-6.00	  0.16-0.18	   0.0-2.9	   1.0-3.0	1.28	   .28	   5	   3	   86
0		4-10		1.35-1.55		0.05-0.12	•	0.2-1.0	1.15	1 .15	-		
	i	10-18				0.17-0.20	!	0.2-1.0	.32	.32	i	i	i
	į i	18-72		1.35-1.55		0.15-0.19	•	0.0-0.5	.37	.37	i	i	i
	į	72-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	į	į	į
Northwood	   5	   0-9	   0-0	  0.10-0.40	0.20-6.00	  0.35-0.48	 	   50-95		   .02	   4	   2	   134
	, - I	9-14		1.25-1.45		0.10-0.18	•	2.0-10	1.15	1 .15	i	i -	i
	j i	14-24		1.45-1.70		0.06-0.11	•	0.1-0.5	1.15	1.15	i	i	i
	į i	24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	i	i
	į i		İ	j i		İ	İ	İ	i	İ	İ	i	İ

Map symbol and	   Pct. of	   Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi 	on fac	tors		Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter				bility	bility
	L			density		capacity	bility	L	Kw	Kf	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
B206A:	! 	! 	 	 			 	 				 	 
Cathro	3	0-11	0-0	0.10-0.35	0.20-6.00	0.35-0.48		75-95	.02	.02	2	2	134
		11-23	0-0	0.10-0.35	0.20-6.00	0.35-0.48		85-95	.02	.02			
		23-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-1.0	.37	.37			
Grygla	2	   0-6	2-15	  1.40-1.60	6.00-20	0.13-0.15	0.0-2.9	1.0-4.0	1 .15	1 .15	5	2	134
		6-26	1-10	1.50-1.70	6.00-20	0.06-0.11	0.0-2.9	0.5-1.0	.15	1.15			
		26-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Roliss	   2	   0-14	   18-27	  1.10-1.50	0.20-2.00	0.17-0.24	3.0-5.9	3.0-8.0	.24	.24	   5	   4L	   86
		14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37			
		20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
B207A:	! 	! 		 				 				 	 
Pelan	70	0-6	5-15	1.10-1.35	2.00-6.00	0.13-0.15	0.0-2.9	1.0-3.0	.20	.24	5	3	86
		6-9	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.15	.15			
		9-14	15-25	1.45-1.65	6.00-20	0.03-0.11	0.0-2.9	0.2-1.0	.20	.24			
		14-20	1-5	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.15			
	 	20-60 	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		 	
Chilgren	1 10	0-4	5-18	  1.30-1.60	2.00-6.00	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	5	3	86
		4-10		1.35-1.55		0.05-0.12		0.2-1.0	.15	1.15			
		10-18		1.50-1.65		0.17-0.20	•	0.2-1.0	.32	.32			
		18-72		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37			
	 	72-80 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		 	 
Garnes	10	0-6			2.00-6.00	•		0.5-3.0	.20	.24	5	3	86
		6-9		1.35-1.55		0.05-0.12		0.2-1.0	.15	.15			
		9-14		1.50-1.65		0.17-0.20		0.2-1.0	.32	.32			
	!	14-72		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	ļ	ļ.	ļ
	 	72-80 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	37	 	 	 
Eckvoll	,   5	0-9	2-10	1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	0.5-3.0	.17	.17	5	2	134
		9-25	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-1.0	1.15	.15			
		25-32		1.40-1.70		0.16-0.18	3.0-5.9	0.1-1.0	.37	.37			
	 	32-80 	18-30	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		 	
Grygla	   5	   0-6	2-15	  1.40-1.60	6.00-20	0.13-0.15	0.0-2.9	1.0-4.0	1 .15	1 .15	5	2	134
		6-26	1-10	1.50-1.70	6.00-20	0.06-0.11	0.0-2.9	0.5-1.0	1.15	.15			
		26-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
B208A:	! 	! 	 	 								! 	
Grygla	75	0-6	2-15	1.40-1.60	6.00-20	0.13-0.15	0.0-2.9	1.0-4.0	.15	.15	5	2	134
		6-26		1.50-1.70		0.06-0.11	0.0-2.9	0.5-1.0	.15	.15			
		26-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
	I	I	I	I	l	I	I	I	I	I	1	I	I

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available		   Organic	Erosi	on fact	ors	erodi-	Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter				bility	bility
				density		capacity	bility	L	Kw	Kf	T	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
B208A:	 		 	 		 	 	 	 	 		 	l I
Chilgren	10	0-4	5-18	1.30-1.60	2.00-6.00	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	5	3	86
-	i i	4-10	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.15	.15		i	i
	j i	10-18	18-30	1.50-1.65	0.60-2.00	0.17-0.20	3.0-5.9	0.2-1.0	.32	.32	i	i	i
	j i	18-72	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	i	i	i
		72-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		į	į
Eckvoll	   5	   0-9	   2-10	  1.20-1.40	6.00-20	  0.10-0.12	   0.0-2.9	   0.5-3.0	   .17	   .17	   5	   2	   134
	i	9-25		1.35-1.55		0.05-0.12		0.1-1.0	1.15	.15		i -	
	! !	25-32		'	0.20-2.00		•	0.1-1.0	37	.37	 	i	i
		32-80		1.35-1.55		0.15-0.19	!	0.0-0.5	.37	.37		İ	
Grygla, depressional	   5	   0-6	2_15	  1.40-1.60	6 00-20	  0.13-0.15	0 0-2 0	   3.0-15	   .15	   .15	5	   2	   134
Grygia, depressionar	, ,	l 6-26		1.50-1.00   1.50-1.70		0.13-0.13	!	0.5-1.0	1.15	1 .15	]	<del>'</del>	1 134
		0-20   26-80				0.15-0.19		0.0-0.5	1.37	.13   .37		l I	i
												i	i
Northwood	5	0-9	0-0	0.10-0.40	0.20-6.00	0.35-0.48	j	50-95	.02	.02	4	2	134
		9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15			
		14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.15	.15			
		24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
B209A:	 	 	l I			 	 	! 		 		i İ	 
Seelyeville	90	0-10	0-0	0.10-0.25	0.20-6.00	0.35-0.48	j	75-99	.02	.02	3	2	134
		10-80	0-0	0.10-0.25	0.20-6.00	0.35-0.48	ļ	75-99	.02	.02		į	į
Cathro	   3	   0-11	l I 0-0	  0.10-0.35	0.20-6.00	  0.35-0.48	 	   75-95	1.02	l l .02	2	   2	   134
		11-23	0-0	0.10-0.35	0.20-6.00	0.35-0.48	i	85-95	.02	.02		i	i
	į	23-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-1.0	.37	.37		į	į
Dora	   3	   0-12	   0-0	  0.10=0.25	0.60-6.00	  0.48-0.58	 	   85-95	1.02	   .02	2	   2	   134
2024	i	12-32		'		0.35-0.48	!	85-95	.02	.02	_	i -	
	i	32-36		1.15-1.35		0.18-0.24	1	3.0-15	1 .28	.28	! 	i	i
		36-60		1.40-1.65		0.10-0.20	•	0.0-0.5	.32	.32		i	
-													
Markey	3	0-32			0.20-6.00		1	75-95	.02	.02	2	2	134
	 	32-60 	2-8 	1.40-1.65  	6.00-20	0.03-0.10 	0.0-2.9 	0.0-0.5 	.15 	.15 		 	 
Berner	1 1	0-28	0-0	  0.10-0.35	0.20-6.00	0.35-0.48		75-95	.02	.02	2	2	134
	l i	28-31	5-15	1.25-1.45	2.00-6.00	0.10-0.18	0.0-2.9	2.0-10	.17	.24			
	l i	31-44	0-5	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.1-0.5	.05	.15			
		44-80	1 10 20	1.35-1.55	0.60-2.00	10 15 0 10	1.0-4.2	0.0-0.5	.37	.37	i	I .	I

Map symbol and	   Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	ors		Wind  erodi-
component name	map unit  		 	bulk density	bility	water  capacity	extensi- bility	matter	   Kw	   K£		Wind	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	İ	<u> </u>			
B210A:	 		l I	 		 	 	 		 	l I	 	 
Eckvoll	I 70 I	0-9	2-10	1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	0.5-3.0	.17	.17	5	i 2	134
	i i	9-25	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-1.0	i .15	.15	i	i	i
	i i	25-32			0.20-2.00			0.1-1.0	.37	.37	i	i	i
		32-80				0.15-0.19		0.0-0.5	.37	.37		į	
Chilgren	   12	0-4	   5-18	  1.30-1.60	2.00-6.00	0.16-0.18	   0.0-2.9	   1.0-3.0	1 .28	   .28	   5	   3	   86
	i i	4-10		1.35-1.55		0.05-0.12		0.2-1.0	1.15	1.15	İ	i	00 
	i	10-18			0.60-2.00	•		0.2-1.0	.32	.32	i	i	i
	i	18-72				0.15-0.19		0.0-0.5	.37	.37	i	i	i
		72-80			0.60-2.00			0.0-0.5	.37	37			
Grygla	   8	0-6	   2_15	  1.40-1.60	   6 00-20	0.13-0.15	   0 0-2 9	1.0-4.0		   .15	   5		   134
GI / gia	,	6-26		1.50-1.70		0.15-0.15	!	0.5-1.0	1 .15	1.15	1	<del>*</del> 	134 
		26-80			0.60-2.00	•		0.0-0.5	.37	.37			! 
G		0.6											
Garnes	7	0-6			2.00-6.00			0.5-3.0	.20	.24	5	3	86
	! !	6-9		1.35-1.55		0.05-0.12		0.2-1.0	1.15	.15		!	!
	! !	9-14			0.60-2.00			0.2-1.0	.32	.32		!	!
		14-72				0.15-0.19		0.0-0.5	.37	.37		!	!
	 	72-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2 	0.0-0.5 	.37	.37 	l I	 	l I
Pelan	3	0-6			2.00-6.00			1.0-3.0	.20	.24	5	3	86
		6-9		1.35-1.55		0.05-0.12	0.0-2.9	0.2-1.0	.15	.15			
		9-14		1.45-1.65		0.03-0.11	0.0-2.9	0.2-1.0	.20	.24			
		14-20	1-5	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	1.15			
		20-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			 
B211A:			i	 			! 	! 				¦	! 
Berner, ponded	45	0-28	0-0	0.10-0.35	0.20-6.00	0.35-0.48	i	75-95	.02	.02	2	8	0
	İ	28-31	5-15	1.25-1.45	2.00-6.00	0.10-0.18	0.0-2.9	2.0-10	.17	.24	ĺ	İ	ĺ
	į į	31-44	0-5	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.1-0.5	.05	.15		İ	ĺ
		44-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		ĺ	
Cathro, ponded	   45	0-11	l   0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	   75-95	.02	.02	   2	   8	   0
	į i	11-23	0-0	0.10-0.35	0.20-6.00	0.35-0.48	i	85-95	.02	.02	İ	i	İ
		23-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-1.0	.37	.37		į	İ
Chilgren	   2	0-4	   5-18	  1.30-1.60	2.00-6.00	0.16-0.18	   0.0-2.9	   1.0-3.0	.28	   .28	   5	   3	   86
J <b></b>	i - i	4-10	•	1.35-1.55		0.05-0.12	•	0.2-1.0	1.15	1.15	i	i	
		10-18	!	!	0.60-2.00	!	!	0.2-1.0	1 .32	1 .32		i	İ
		18-72				0.15-0.19		0.0-0.5	37	37		i	İ
		72-80			0.60-2.00			0.0-0.5	1.37	37		i	İ
			, 10 30 I		3.00 2.00	1	, 1.2 	1	••,			:	:

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	Moist	Permea-	  Available		   Organic	Erosi	on fac	tors	erodi-	Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter	!		! _	-	bility
	<u> </u>	l In	l Pct	density g/cc	In/hr	capacity In/in	bility   Pct	l Pct	Kw	Kf 	<u>  т</u> 	group 	index 
		İ	į			į	į	į	į	į	į	į	į
B211A: Grygla	   2	   0-6	215	  1.40-1.60	6 00 20	0.13-0.15		   1.0-4.0	   .15	   .15	   5	   2	134
Grygia	<u>2</u> 	0-6   6-26		1.40-1.60   1.50-1.70		0.06-0.11		0.5-1.0	1.15	1 .15	1 2	<del>4</del> 	1 134
		26-80		1.35-1.55		0.15-0.19	!	0.0-0.5	.13	.13		 	
Hamre	   2	   0-13	   0-0	  0 10=0 40	0.20-6.00	10 35-0 48	 	   50-95			   5	   2	   134
	 I	13-18		1.25-1.50		0.17-0.22	1	2.0-10	1.32	32	ľ	i -	131
		18-35		1.35-1.55		0.15-0.19	•	0.0-0.5	37	37	ŀ	i	1
		35-80			0.60-2.00	0.15-0.19	•	0.0-0.5	.37	.37	į		
Northwood	   2	   0-9	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	   .02	   4	   2	134
		9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15	i	i	i
	i	14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.15	.15	i	i	i
		24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Seelyeville, ponded	   2	   0-10	l l 0-0	  0.10-0.25	0.20-6.00	0.35-0.48	 	   75-99	1 .02	   .02	   3	   8	   0
		10-80	0-0	0.10-0.25	0.20-6.00	0.35-0.48	<u> </u>	75-99	.02	.02	į	į	į
[1A:	 	 	 			 	 	 	 	 	 	 	 
Augsburg	75	0-11	15-22	0.95-1.20	0.60-2.00	0.20-0.23	0.0-2.9	3.0-8.0	.28	.28	5	4L	86
	ĺ	11-18	5-18	1.30-1.50	0.60-6.00	0.17-0.22	0.0-2.9	0.2-2.0	.28	.28	İ	İ	İ
		18-33	5-18	1.40-1.60	0.60-6.00	0.17-0.22	0.0-2.9	0.1-0.5	.28	.28	ĺ	İ	İ
		33-60	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Borup	   10	   0-12	   15-22	  0.95-1.20	0.60-2.00	0.20-0.23	0.0-2.9	3.0-8.0	.28	.28	   5	   4L	   86
		12-34	10-18	1.30-1.50	0.60-6.00	0.17-0.22	0.0-2.9	0.2-2.0	.28	.28			
	 	34-60	5-18	1.35-1.65	0.60-6.00	0.08-0.22	0.0-2.9	0.0-0.5	.28	.28			
Foxlake	   5	   0-19	   18-27	  1.15-1.35	0.60-6.00	0.20-0.22	0.0-2.9	3.0-8.0	.24	.24	   5	   4L	86
		19-38	35-60	1.25-1.45	0.06-0.20	0.09-0.19		0.5-2.0	.28	.28			
		38-49	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.1-0.5	.28	.28			
		49-80 	35-60	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9 	0.0-0.5	.28	.28 	 	 	
Augsburg, depressional	   3	   0-11	10-20	1.00-1.30	0.60-2.00	0.20-0.30	0.0-2.9	3.0-15	.28	.28	5	   4L	86
		11-18	5-18	1.30-1.50	0.60-6.00	0.17-0.23	0.0-2.9	0.5-2.0	.28	.28			
		18-33	5-18	1.40-1.60	0.60-6.00	0.17-0.22	0.0-2.9	0.1-0.5	.28	.28			
	 	33-60 	35-60 I	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28		 	
Wheatville	   3	   0-9	10-20	  1.25-1.40	0.60-6.00	0.18-0.22	0.0-2.9	2.0-6.0	.28	.28	   5	   3	   86
		9-31			0.60-6.00	0.17-0.22	•	0.2-2.0	.43	.43			
	 	31-80 	35-60 	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9 	0.0-0.5	.28 	28		 	
Glyndon	2	   0-11				0.20-0.23		2.0-6.0	.28	.28	5	3	86
		11-28			0.60-6.00	0.17-0.22		0.2-2.0	.28	.28			
		28-60	5-18	1.35-1.65	0.60-6.00	0.08-0.22	0.0-2.9	0.0-0.5	.28	.28	ļ	ļ	ļ
		l											

						1	I	I	Erosi	on fact	tors	Wind	Wind
Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	Available	Linear	Organic	i			erodi-	
component name	map unit	_	i -	bulk	bility	water	extensi-	matter	i	I	I .	bility	bility
			<u> </u>	density		capacity	bility	İ	Kw	K£	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct		ļ			
I1A:			 	 			 	 		 	 	 	 
Espelie	1	0-9	5-18	1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		9-24		1.35-1.60		0.06-0.11		0.5-1.0	.17	.17			
		24-80	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	1 .28	.28 	 	 	
Hattie	1 1	0-8			0.06-0.20			2.0-5.0	.28	.28	5	4	86
		8-22		1.25-1.45		0.10-0.19		0.2-2.0	.28	.28			
		22-80	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	 	 	
I3A:			i	 			İ	İ		<u> </u>			i
Berner	80	0-28				0.35-0.48		75-95	.02	.02	2	2	134
		28-31		1.25-1.45		0.10-0.18		2.0-10	1.17	.24			
		31-44		1.45-1.65		0.05-0.10		0.1-0.5	.05	.15			!
		44-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	 
Northwood	7	0-9	0-0	  0.10-0.40	0.20-6.00	0.35-0.48		   50-95	.02	.02	4	2	134
		9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15			
		14-24		1.45-1.70		0.06-0.11	0.0-2.9	0.1-0.5	1.15	.15			
		24-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	
Kratka	5	0-11	   5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	3	86
		11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17			
		18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17			
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	 		
Hamre	3	0-13	0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	.02	   5	2	134
		13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32			
		18-71	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
		71-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Strathcona	3	0-10	   5-18	  1.20-1.50	2.00-20	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	3	86
		10-17	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		17-28	2-8	1.35-1.60	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15			
		28-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	 		
Seelyeville	2	0-10	0-0	  0.10-0.25	0.20-6.00	0.35-0.48	 	   75-99	.02	.02	   3	2	134
				0.10-0.25	0.20-6.00		i	75-99	.02	.02			

0-0 |0.10-0.35| 0.20-6.00 |0.35-0.48|

5-15|1.25-1.45| 2.00-6.00 |0.10-0.18| 0.0-2.9 |

31-44 | 0-5 | 1.45-1.65 | 6.00-20 | 0.05-0.10 | 0.0-2.9 | 0.1-0.5 | .05 | .15 | 44-80 | 18-30 | 1.35-1.55 | 0.60-2.00 | 0.15-0.19 | 1.0-4.2 | 0.0-0.5 | .37 | .37 |

75-95

2.0-10 | .17 |

.02 | 2 |

.24

I4A:

30

0-28

28-31 |

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available		   Organic	Erosi	on fact		erodi-	Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter	!	!	•	bility	
		<u> </u>	<u> </u>	density		capacity	bility	<u> </u>	Kw	Kf	T	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct		 	 		
I4A:		 					 	 	i	<u> </u>	 	i	i
Rosewood, depressional	30	0-8	5-18	1.00-1.35	2.00-6.00	0.20-0.30	0.0-2.9	3.0-15	.20	.20	3	3	86
		8-18	6-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		18-80	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15		ļ	ļ
Strathcona,		 	 	 		 	 	 		 	 		
depressional	30	   0-10	5-18	1.20-1.50	2.00-20	0.20-0.30	0.0-2.9	3.0-15	.20	.20	3	3	86
		10-17	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24	i	i	i
		17-28		1.35-1.60		0.05-0.12		0.1-0.5	.15	1.15	i	i	i
		28-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	İ	i	i
Rosewood	   4	   0-8	   5_10	  1 00_1 35	2.00-6.00	  0.16-0.18	   0.0-2.9	   3.0-8.0	1.24	   .24	   3	   3	   86
Rosewood	<del>*</del>	0-6   8-18		1.00-1.35   1.30-1.50		0.10-0.10		0.5-2.0	1 .24	.24	l 3	3	1 00
		8-16   18-80		1.30-1.50   1.45-1.65	6.00-20	0.05-0.17		0.0-0.5	1 .15	1 .15	l I		-
	 	10-00 	2-0	1.45-1.65  	0.00-20		0.0-2.9	0.0-0.5	.15	•13	 	İ	i
Deerwood	2	0-10	0-0	0.15-0.35	0.20-6.00	0.35-0.48	j	50-95	.02	.02	3	2	134
	j i	10-12	2-15	1.25-1.45	2.00-20	0.09-0.17	0.0-2.9	2.0-10	.17	.17	İ	i	i
		12-60	1-8	1.50-1.70	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.15	.17	į	į	į
Mavie	   2	   0-12	   10=18	  1.20-1.50	2.00-6.00	  0.16-0.18	   0.0-2.9	   3.0-8.0	1.20	   .20	   3	   3	   86
114710		12-18		1.35-1.55		0.12-0.19		0.5-2.0	1 .28	1 .28	]		00
		18-39		1.40-1.65		0.03-0.06		0.0-0.5	1.10	1.15	! !	<u> </u>	1
		39-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	İ	i	i
grant hanna													
Strathcona	2	0-10   10-17		1.20-1.50		0.13-0.18		3.0-8.0	1.24	.20   .24	5	3	86
		10-17   17-28	•	1.30-1.50				0.5-2.0	1.15	.24   .15		!	
		28-80		1.35-1.60   1.35-1.55		0.05-0.12		0.1-0.5	.15	37	 	i i	
		į	į	į		į	į	į	į	į	į	į	į
I5A: Borup	   75	   0-12	15 22	   0 0 1 20	0.60-2.00	0.20-0.23	   0.0-2.9	   3.0-8.0	1.28	   .28	   5	   4L	   86
вот пр	/5   	12-34		0.95-1.20   1.30-1.50		0.17-0.22		0.2-2.0	1 .28	1 .28	l o	   410	1 00
		34-60		1.35-1.65   1.35-1.65		0.08-0.22		0.0-0.5	.28	.28	 	i	i
		ĺ	į			į	į	į	į	į	į	į	į
Glyndon	9	0-11		1.05-1.25		0.20-0.23		2.0-6.0	.28	.28	5	3	86
		11-28		1.30-1.50		0.17-0.22		0.2-2.0	.28	.28	!	ļ	!
		28-60 	5-18 	1.35-1.65  	0.60-6.00	0.08-0.22	0.0-2.9	0.0-0.5	1 .28	.28 	 		
Rosewood	8	   0-8	5-18	  1.00-1.35	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.24	.24	   3	3	86
İ	l i	8-18	6-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		18-80	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15	ļ		ļ
Augsburg	   5	   0-11	   15-22	  0.95-1.20	0.60-2.00	0.20-0.23	   0.0-2.9	   3.0-8.0	1 .28	   .28	   5	   4L	   86
		11-18			0.60-6.00	0.17-0.22	!	0.2-2.0	.28	.28	i	i	i
i		18-33		1.40-1.60		0.17-0.22		0.1-0.5	.28	.28	i	i	i
i	i	33-60				0.09-0.19		0.0-0.5	.28	.28	i	i	i
	i	İ	i			i	i	i	i	i	i	i	i

Map symbol and	Pct. of	   Depth	   Clav	   Moist	Permea-	  Available	   Linear	   Organic	ELOSI	on fac	COIS	wind  erodi-	Wind  erodi
component name	map unit		0202	bulk	bility	water	extensi-	matter	i	ı		bility	
component name	l map anic	! 	¦	density	DITICA	capacity	bility	I maccoci	l Kw	l K£	l Imr	group	
	1	l In	l Pct	g/cc	In/hr	In/in	Pct	Pct	I ICW	1		l aroub	I
		l	l FCC	9/00   	111/111	1 111/111	l FCC	l FCC		i i	l I	I I	
I5A:		l I	I I	: :				I I		i i	l I	I I	
Augsburg, depressional	l   3	   0-11	l l 10-20	I   1 . 00=1 . 30	0.60-2.00	10.20-0.30	1 0.0-2.9	3.0-15	1 .28	l   .28	l I 5	   4L	l I 86
ingpourg, depressionar	1	11-18		1.30-1.50		•		0.5-2.0	1 .28	1 .28			1
		18-33			0.60-6.00	1		0.1-0.5	1 .28	.28	! !	i	i
		33-60		1.25-1.55		0.09-0.19		0.0-0.5	1 .28	1 .28	! !	i	i
		33 00 	1 33 00	I	0.00 0.20	1	1	1	1 .20	1	! !	i	i
17A:		l I	i	i i		i	! !	i i	1	i	! !	i	i
Bowstring	l 45	l 0-38	I 0-0	I   0 . 15=0 . 35	0.20-6.00	10.35-0.45	¦	   40-90	.02	1 .02	1 2	l I 8	0
DOWN CITING	1 13	38-47		11.40-1.60		0.08-0.14		2.0-10	1.17	.20	i ~	i	i
		30 17   47-80		0.15-0.35		•		40-90	.02	1.02	<u> </u>	i	i
	i	, <i></i> 00			3.20 0.00		i				i	i	i
Fluvaquents	l 45	l   0-16	5-15	  1.20-1.50	2.00-20	0.16-0.24	0.0-2.9	3.0-10	1 .20	1 .20	l I 5	l I 5	l I 56
		16-80		11.40-1.65		0.04-0.20		0.5-3.0	1.17	1.20	-	i	
		±0 00	,	1.10 1.05  	0.00 20		1	1	•=/	1	<u> </u>	i	i
Hapludolls	l   5	l 0-9	   15-27	  1.00=1.30	0.60-2.00	0.17-0.22	   3.0-5.9	1.0-5.0	.28	.28	!   5	l   6	1 48
mag = uuo = = =		l 9-60				0.14-0.20		0.0-0.5	1 .28	1 .28	-	i	
	i		20 00		2100		1		120	1	i	i	i
Water	l   5		i	i i		i		i	i	i	i -	i	i
		! 	i	i i		i	i	i	i	i	i	i	i
I8A:	i	: 	i	i i		i	i	i	i	i	i	i	i
Cathro	80	   0-11	0-0	0.10-0.35	0.20-6.00	0.35-0.48	i	75-95	.02	.02	2	2	1 134
		11-23			0.20-6.00			85-95	.02	.02	i -	i -	
	i	23-60			0.60-2.00			0.0-1.0	.37	.37	i	i	i
	i						i				i	i	i
Hamre	8	   0-13	0-0	  0.10-0.40	0.20-6.00	0.35-0.48	i	50-95	.02	.02	5	2	1 134
		13-18			0.20-2.00			2.0-10	.32	.32	i	i	i
	i	18-71			0.60-2.00			0.0-0.5	.37	.37	i	i	i
	i	71-80			0.60-2.00			0.0-0.5	.37	.37	i	i	i
	i	İ	i			1	i		i	i	i	i	i
Northwood	3	0-9	0-0	0.10-0.40	0.20-6.00	0.35-0.48	i	50-95	.02	.02	4	2	134
	i	9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15	i	i	i
	į	14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.15	.15	i	i	i
	į	24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	i	i	i
	į	İ	i	i i		İ	i	İ	i	i	i	i	i
Roliss	3	0-14	18-27	1.10-1.50	0.20-2.00	0.17-0.24	3.0-5.9	3.0-8.0	.24	.24	5	4L	86
	İ	14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37	İ	İ	İ
		20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	l	I	1
	I			į i			I		1	I	I	I	1
Berner	2	0-28	0-0	0.10-0.35	0.20-6.00	0.35-0.48	j	75-95	.02	.02	2	2	134
		28-31	5-15	1.25-1.45	2.00-6.00	0.10-0.18	0.0-2.9	2.0-10	.17	.24	l	I	1
		31-44	0-5	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.1-0.5	.05	.15	l	I	1
		44-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	l	I	1

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	Moist	Permea-	Available		Organic	LETOS1	on fact	LOTS	erodi-	
component name	map unit		!	bulk	bility	water	extensi-	matter			! _	bility	
				density		capacity	bility		Kw	Kf	T	group	index
		In 	Pct	g/cc	In/hr	In/in	Pct	Pct		l I	ŀ	l I	l I
I8A:		İ	i	i		i	<u> </u>	İ	i		i	i	
Kratka	2	0-11	5-18	1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17			
I		18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17			
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
  Seelyeville	2	   0-10	   0-0	  0.10-0.25	0.20-6.00	0.35-0.48		   75-99	.02	   .02	   3	   2	   134
j	j i	10-80	0-0	0.10-0.25	0.20-6.00	0.35-0.48	j	75-99	.02	.02	İ	į	j
19A:		 	 				 	 		 	 		 
Clearwater	80	   0-8	40-60	  1.10-1.30	0.06-0.20	0.13-0.17	6.0-8.9	3.0-8.0	.28	.28	   5	4	l   86
i	i	8-35	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	0.5-2.0	.32	.32	i	i	i
į		35-80	35-60	1.25-1.55		0.09-0.19	•	0.0-0.5	.28	.28	į	į	
Clearwater, very		 	 				 	 		 	 	 	 
cobbly	l 5	l 0-8	l   40-60	  1.10=1.30	0.06-0.20	0.13-0.17	l 6.0-8.9	3.0-8.0	.24	1 .28	l I 5	4	l I 86
002217	i	8-35	•	1.20-1.50		0.10-0.19		0.5-2.0	.32	.32	i	i -	00 
j		35-80		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	İ	i	İ
Reis	   5	   0-9	   40-60	  1.10=1.30	0.06-0.20	10.13-0.17	   6.0=8.9	3.0-8.0		   .28	   5	   4	   86
1025		9-17		1.20-1.50		0.13-0.17		0.5-8.0	.32	.32	i	i -	İ
i		17-33		1.20-1.50				0.5-2.0	.32	.32	i	i	i
i		33-42	40-60	1.30-1.60	0.06-0.20	0.10-0.16	6.0-8.9	0.2-1.0	.32	.32	i	i	i
i	j i	42-60	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	i	i	i
İ		60-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	į
Clearwater,	 	 	 	 		 	 	 		 	l I	 	 
depressional	3	0-8	27-35	  1.20-1.45	0.20-2.00	0.17-0.30	3.0-5.9	3.0-15	.24	.24	5	6	48
i	j i	8-35	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	1.0-3.0	.32	.32	i	i	İ
į		35-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	į
Espelie	   3	   0-9	   5-18	  1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	1 .20	   .20	   5	   3	l l 86
		9-24	3-10	1.35-1.60	2.00-20	0.06-0.11	0.0-2.9	0.5-1.0	.17	.17	i	i	i
į		24-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	
Foxlake	   2	   0-19	   18-27	  1.15-1.35	0.60-6.00	0.20-0.22	0.0-2.9	3.0-8.0	1.24	   .24	   5	   4L	   56
	-	19-38		1.25-1.45		0.09-0.19		0.5-2.0	.28	.28	i	i	i
i		38-49		1.25-1.45		0.09-0.19		0.1-0.5	.28	.28	i	i	i
		49-80		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	į	į	į
 	   1	   0-8	   40-60	  1.10-1.30	0.06-0.20	0.13-0.17	   6.0-8.9	2.0-5.0	1 .28	   .28	   5	   4	   86
	, <del>-</del>	0-0   8-22		1.25-1.45		0.10-0.19		0.2-2.0	1 .28	1 .28	i	i	, 50 I
i		22-80		1.25-1.55		0.09-0.19		0.0-0.5	1 .28	1 .28	i	i	i
i	j	į	i						i	i	i	i	i

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind  erodi-
component name	map unit		į	bulk density	bility	water  capacity	extensi-	matter	   Kw	   K£		bility	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	ICW		-		
19A:													
Huot	1 1	   0-14	   5-15	  1.15-1.45	2.00-6.00	0.13-0.18	0.0-2.9	2.0-5.0	.20	.20	   5	   3	   86
	j	14-26	5-15	1.30-1.60	2.00-6.00	0.09-0.17	0.0-2.9	0.2-1.0	.20	.20	į	į	į
İ	İ	26-34	2-8	1.55-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.20	.20	ĺ	ĺ	ĺ
		34-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
I11A:		 	i İ	 		 	 	 		 	 	 	 
Deerwood	85	0-10	0-0	0.15-0.35	0.20-6.00	0.35-0.48	j	50-95	.02	.02	3	2	134
		10-12		1.25-1.45		0.09-0.17	0.0-2.9	2.0-10	.17	.17			
		12-60	1-8	1.50-1.70	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	1.15	1.17			
Rosewood	6	   0-8	   5-18	  1.00-1.35	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.24	.24	3	3	   86
		8-18	6-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		18-80	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	1.15			
Markey	l 3	l l 0-32	I I 0-0	  0.10=0.35	0.20-6.00	I I0.35-0.48	 	   75-95	1 .02	.02	   2	l l 2	   134
		32-60		1.40-1.65		0.03-0.10		0.0-0.5	.15	1.15	į	<u>-</u>	
Strathcona	   2	   0-10	   5_18	  1.20-1.50	2 00-20	0.13-0.18	1 0 0-2 9	3.0-8.0	.20	   .20	   5	   3	   86
beraciicona	<del>*</del>	10-17			2.00-6.00			0.5-2.0	1 .24	1 .24		1	00 
		17-28		1.35-1.60		0.05-0.12		0.1-0.5	1.15	1.15	i	i	i
		28-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	į	į	į
Syrene	   2	   0-9	   8-18	  1.10-1.40	0.60-2.00	0.13-0.15	   0.0-2.9	3.0-8.0	1.20	   .20	   3	   3	   86
•		9-17	10-25	1.30-1.50	2.00-6.00	0.12-0.19	0.0-2.9	0.5-2.0	.32	.32	i	i	i
j	i	17-27	1-5	1.50-1.70	6.00-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.10	i	i	i
		27-60	1-5	1.50-1.70	6.00-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.10	į	į	į
Venlo	   2	   0-13	   5-10	  1.20-1.30	6.00-20	0.13-0.18	0.0-2.9	   3.0-15	.20	.20	   5	   3	   86
		13-60	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17	į	į	į
I12A:			 	 		 	 	 	 	 	 	 	 
Eckvoll	70	0-9	2-10	1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	0.5-3.0	.17	.17	5	2	134
		9-25	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-1.0	1.15	.15			
		25-32		1.40-1.70		0.16-0.18	3.0-5.9	0.1-1.0	.37	.37			
		32-80 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 		 	 
Kratka	8	0-11	5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		11-18		1.30-1.60		0.06-0.11		0.5-2.0	.17	.17			
		18-25   25-80		1.30-1.60   1.35-1.55		0.06-0.12		0.1-0.5	.17	.17	 	 	 
		İ	į	j i		İ	į	į	i	i	İ	<u> </u>	İ
Smiley	7	0-12				0.20-0.24		3.0-8.0	.24	.24	5	5	56
		12-19				0.15-0.19	•	0.5-2.0	.24	.24		I	I
		19-42   42-80		1.35-1.55   1.35-1.55	0.60-2.00 0.60-2.00	0.15-0.19		0.2-1.0	37	37	1	I I	I
		42-00	10-30		0.00-2.00		1.0-4.2		.3/	.3/		! 	

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available		   Organic	Erosi	on fact		erodi-	Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter				bility	bility
				density	l	capacity	bility	L	Kw	Kf	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct		ļ			
I12A:	 	 	 	 			 	 		 	 	 	 
Linveldt	5	0-9	5-15	1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		9-16	12-25	1.25-1.50	0.60-6.00	0.12-0.18	0.0-2.9	0.2-2.0	.28	.28			
		16-29	1-8	1.45-1.65	6.00-20	0.05-0.11	0.0-2.9	0.1-0.5	.15	.17			
		29-45	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
		45-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Reiner	   5	   0-7	   5-15	1.10-1.35	2.00-6.00	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	   5	   3	   86
	ĺ	7-17	25-35	1.40-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.2-2.0	.32	.32	ĺ	İ	ĺ
	ĺ	17-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	ĺ	İ	ĺ
		35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ĺ	ĺ	İ
Foldahl	   2	   0-12	   2-10	  1.20-1.40	   6.00-20	0.10-0.14	0.0-2.9	2.0-4.0	.17	   .17	   5	   2	   134
	j i	12-30	1-10	1.45-1.60	6.00-20	0.07-0.12	0.0-2.9	0.2-1.0	.17	.17	i	i	i
		30-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Pelan	   2	l l 0-6	   5-15	  1.10-1.35	   2.00-6.00	0.13-0.15	   0.0-2.9	1.0-3.0	1 .20	   .24	   5	   3	   86
	i	6-9		1.35-1.55		0.05-0.12		0.2-1.0	.15	.15	i	i	i
	i	9-14	•	1.45-1.65		0.03-0.11	0.0-2.9	0.2-1.0	.20	.24	i	i	i
		14-20		1.50-1.70		0.02-0.07		0.0-0.5	.05	.15	i	i	i
	İ	20-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Poppleton	   1	   0-6	   2-10	  1.20-1.40	   6.00-20	0.08-0.10	   0.0-2.9	0.5-2.0		   .15	   5	   1	   250
	j	6-9	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15	İ	i	i
	j i	9-40	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15	i	i	i
		40-60	1-8	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.15	.15	į	į	į
I13A:	 	 	 	 		 	 	 		 	 	 	 
Espelie	75	0-9	5-18	1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
_	j i	9-24	3-10	1.35-1.60	2.00-20	0.06-0.11	0.0-2.9	0.5-1.0	.17	.17	i	i	i
	į	24-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	į
Foxlake	   8	   0-19	   18-27	  1.15-1.35	   0.60-6.00	0.20-0.22	   0.0-2.9	   3.0-8.0	.24	   .24	   5	   4L	   56
	j i	19-38	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.5-2.0	.28	.28	İ	İ	İ
	ĺ	38-49	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.1-0.5	.28	.28	ĺ	İ	ĺ
		49-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	ĺ	ĺ	İ
Hilaire	   7	   0-10	   5-15	  1.15-1.45	   2.00-6.00	0.10-0.12	   0.0-2.9	2.0-5.0	.20	   .20	   5	   2	   134
	j	10-34	1-8	1.35-1.60	6.00-20	0.07-0.11	0.0-2.9	0.5-1.0	.15	.15	İ	i	İ
		34-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28		į	İ
Clearwater,	 	 	 	 	 	 	 	 		 	 	 	 
depressional	5	0-8	27-35	1.20-1.45	0.20-2.00	0.17-0.30	3.0-5.9	3.0-15	.24	.24	5	6	48
_	j	8-35				0.10-0.19		1.0-3.0	.32	.32	İ	i	i
	j	35-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	İ	İ	İ
	l i		l					[		I		I	

Many americal and							 		Erosi	on fac	tors		Wind
Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	Available		Organic	ļ			erodi-	
component name	map unit	l	!	bulk	bility	water	extensi-	matter	**			bility	
			L 5-1	density	T (1	capacity	bility	l 5	Kw	Kf	T	group	Index
		In	Pct	g/cc   	In/hr	In/in	Pct 	Pct		 	 	l I	i i
I13A:			i	i		İ	İ	i	i	İ	i	<u> </u>	i
Thiefriver	5	0-12	8-18	1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		12-23	10-18	1.30-1.50	2.00-6.00			0.5-2.0	.24	.24			
		23-32		1.45-1.70		0.06-0.11	0.0-2.9	0.1-0.5	.17	.17			
		32-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	ļ		ļ
I15A:	 	 	l I	 		l I	l I	 	l	 	 	l I	
Flaming	l 70	   0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0	.17	.17	   5	l l 2	1 134
		12-17		1.30-1.50		0.06-0.12		0.5-3.0	.17	.17	i	i -	
i		17-27		1.30-1.50		0.05-0.12		0.2-1.0	.17	.17	i	İ	i
İ	İ	27-60	1-8	  1.50-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17	i	j	į
		l	[			Į.		[		ļ			ļ
Garborg	10	0-12		1.20-1.40		0.10-0.13		2.0-6.0	.17	.17	5	2	134
		12-41		1.35-1.55		0.06-0.12		0.5-2.0	.17	.17	!		!
		41-59	•	1.45-1.65		0.06-0.10		0.0-0.5	.17	.17	!		!
	 	59-80 	l 1-8	1.45-1.65  	2.00-20	0.06-0.10	0.0-2.9 	0.0-0.5	1.17	1.17	 	l I	l i
Hamar	5	   0-12	2-10	  1.20-1.40	2.00-20	0.10-0.13	0.0-2.9	3.0-8.0	1 .17	1 .17	   5	   2	1 134
	j i	12-17	2-10	1.35-1.55	2.00-20	0.06-0.12	0.0-2.9	0.5-2.0	.17	.17	i	İ	i
	j i	17-40	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17	İ	İ	İ
İ	İ	40-47	2-10	1.30-1.50	2.00-20	0.10-0.13	0.0-2.9	1.0-4.0	.17	.17	ĺ	ĺ	İ
		47-60	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17	ļ	l	ļ
Ulen	   5	   0-9	   010	  1 15 1 45	2.00-6.00	0.13-0.18		2.0-5.0		20			   86
Ulen	] 3	0-9   9-42			2.00-6.00	0.13-0.18		0.2-1.0	1.24	.20	3 	3 	1 00
		42-60		1.45-1.65		10.05-0.08		0.0-0.5	1 .15	1 .15	 	l I	1
		12 00	20		0.00 20				•==	•==	i	 	i
Poppleton	3	0-6	2-10	1.20-1.40	6.00-20	0.08-0.10	0.0-2.9	0.5-2.0	.15	.15	5	1	250
İ	İ	6-9	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15	ĺ	ĺ	İ
		9-40	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	1.15	.15			
		40-60	1-8	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.15	.15	ļ		ļ
Sandberg	l 3	   0-12	   2_10	  1.20-1.40	6 00-20	0.10-0.12	   0 0-2 0	1.0-3.0	.17	   .17	   5	   2	   134
Bandberg	] ]	12-19		1.20-1.40   1.50-1.70		0.10-0.12		0.5-1.0	.05	1 .10	1 2	<b>4</b> 	1 134
		19-29		1.50-1.70   1.50-1.70		0.03-0.10		0.5-1.0	1 .05	1.10	ľ	l İ	1
		29-80		1.50-1.70		0.02-0.04		0.0-0.5	.05	1.10	i	! 	i
İ	j i	İ	İ	j j		İ	İ	İ	İ	j	İ	İ	İ
Foldahl	2	0-12		1.20-1.40		0.10-0.14		2.0-4.0	.17	.17	5	2	134
		12-30		1.45-1.60		0.07-0.12		0.2-1.0	1.17	.17			
		30-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		 	
Radium	   2	   0-14	l   2-8	  1.20-1.40	6.00-20	0.06-0.12	   0.0-2.9	1.0-3.0	.17	   .17	   5	   2	134
		14-33		11.40-1.65		0.03-0.08		0.0-0.5	1.10	1.10	i	i -	
i		33-43		1.55-1.75	20-40	0.02-0.05		0.0-0.5	1.10	1.17	i	İ	i
i	i	43-80		1.55-1.75	6.00-20	0.03-0.09		0.0-0.5	.10	.17	i	İ	i
j	į		i	į i		i	i	i	i	i	İ	İ	İ

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available	•	Organic	Erosi	on fac		erodi-	Wind  erodi-
component name	map unit	 		bulk   density	bility	water	extensi-	matter	   Kw	   Kf		bility  group	
	<u> </u>	   In	Pct	g/cc	In/hr	capacity In/in	Pct	Pct	KW	KI	<u>T</u>	group 	index
	į	į	į	į		į	į	į	į	į	į	į	į
116F:													
Fluvaquents	55 	0-16   16-80		1.20-1.50  1.40-1.65		0.16-0.24		3.0-10 0.5-3.0	.20   .17	20	5 	5 	56 
	İ		i								i	i	İ
Hapludolls	25	0-9	15-27	1.00-1.30	0.60-2.00	0.17-0.22	3.0-5.9	1.0-5.0	.28	.28	5	6	48
		9-60	15-35	1.20-1.50	0.60-2.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.28	ļ	ļ	
Hapludalfs	   7	   0-6	   10-18	  1.30-1.45	2.00-6.00	  0.16-0.18	   0.0-2.9	0.5-2.0	1 .20	   .20	   5	   3	   86
1142 1144 115	, , 	l 6-8	•	1.30-1.55		0.10-0.18		0.0-0.5	1 .20	.20			
	İ	8-25	•		0.20-2.00	0.15-0.19	3.0-5.9	0.0-0.5	.37	.37	i	i	i
	İ	25-80				0.14-0.19		0.0-0.5	.32		İ	i	İ
Fairdale	   5	   0-7	   18-27	  1 00=1 35	0.60-2.00	10 20-0 24	0 0-2 9	   2.0-7.0	.28	   .28	   5	   4L	   86
raildaic	, , ,	0-7   7-48	•			0.17-0.23		0.5-3.0	1.32	1.32		40	00 
	! 	7 10   48-67	•			0.18-0.24		3.0-6.0	.24		ŀ	i i	i
	! 	67-80				0.17-0.23		0.1-3.0	.32	1	i	i	
**-1		ļ	ļ									ļ	
Water	5 	 	 	 		 	 	 		 	- 	 	 
Bowstring	2	0-38			0.20-6.00			40-90	.02	.02	2	8	0
		38-47		1.40-1.60		0.08-0.14		2.0-10	1.17	.20			
	 	47-80 	0-0	0.15-0.35	0.20-6.00	0.35-0.45		40-90	.02	.02			 
Rauville	   1	   0-27	27-35	1.00-1.25	0.20-2.00	0.18-0.25	3.0-5.9	4.0-15	.28	.28	5	   4L	   86
		27-45	20-35	1.10-1.30	0.20-2.00	0.17-0.22	3.0-5.9	1.0-4.0	.28	.28			
		45-60	1-30	1.20-1.65	0.60-20	0.04-0.20	0.0-2.9	0.1-2.0	.17	.20	ļ	ļ	
I17A:	 	l I	l I	 		 	 	 	 	 	 	l I	l I
Foldahl	,   75	0-12	5-15	1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
	İ	12-30	1-10	1.45-1.60	6.00-20	0.07-0.12	0.0-2.9	0.2-1.0	.17	.17	i	i	i
	İ	30-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	İ
Kratka	   10	   0-11	   5-18	  1.20=1.50	2.00-6.00	  0.16=0.18	   0.0-2.9	   3.0-8.0	1.20	   .20	   5	   3	   86
	i	11-18		1.30-1.60		0.06-0.11		0.5-2.0	.17	.17	i	-	
	İ	18-25	•	1.30-1.60		0.06-0.12		0.1-0.5	.17	.17	i	i	i
	İ	25-80			0.60-2.00			0.0-0.5	.37		İ	i	İ
Roliss	   5	   0-14	10-27	  1 10_1 E0	0.20-2.00	  0.17-0.24	3 0-5 0	3.0-8.0	1.24	   .24	   5	   4L	   86
VOTTOD	1 3 I	0-14   14-20			0.20-2.00	0.17-0.24		0.5-2.0	37	37	ا	1 47	l so
	 	20-80				0.15-0.19		0.0-0.5	.37	.37			 
Flaming	4	0-12		1.20-1.40		0.10-0.12		2.0-4.0	.17	1.17	5	2	134
	l I	12-17   17-27		1.30-1.50		0.06-0.12		0.5-3.0	1.17	.17   .17		I	l I
	l I	27-60		1.30-1.50  1.50-1.70		0.05-0.12		0.2-1.0	1.17	.17		I I	l I
	I 	2/-00 	1-0 	1 20 - 1 - 70	3.00-20	10.02-0.10	0.0-2.9	0.0-0.5	• • • /	•±/	¦		l I
	I	I	I	ı	l	1	1	1	1	I	1	I	ı

Map symbol and component name	Pct. of   map unit	   Depth   	   Clay 	Moist     bulk	Permea- bility		extensi-	   Organic   matter	Erosion factors				Wind
									ļ				erodi
											! _	bility	
		l In	l   Pct	density   g/cc	In/hr	capacity In/in	bility   Pct	l Pct	Kw	Kf	<u>  Т</u> 	group	Index
				9/00	111/111				i			i	<u> </u>
[17A:													
Grimstad	2	0-9			2.00-6.00					.20	5	3	86
		9-22		1.30-1.60		0.09-0.17			•	.20			
		22-28		1.45-1.60		0.05-0.14		0.1-0.5	.20	.20	ļ	ļ	ļ
		28-60 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19 	1.0-4.2 	0.0-0.5 	.37 	.37	 	 	 
Linveldt	2	0-9	   5-15	  1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		9-16	12-25	1.25-1.50	0.60-6.00	0.12-0.18	0.0-2.9	0.2-2.0	.28	.28			
		16-29	1-8	1.45-1.65	6.00-20	0.05-0.11	0.0-2.9	0.1-0.5	.15	.17			
		29-45			0.60-2.00					.37			
		45-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Eckvoll		   0-9	   2-10	  1.20-1.40	6.00-20	0.10-0.12	   0.0-2.9	   0.5-3.0	1 .17	   .17	l   5	2	1 134
	i	9-25	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-1.0	.15	.15	i	i	i
	i	25-32	18-35	1.40-1.70	0.20-2.00	0.16-0.18	3.0-5.9	0.1-1.0	.37	.37	i	İ	i
		32-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	İ	ĺ
Strathcona	   1	   0-10	   5_18	  1.20-1.50	2 00-20	0.13-0.18	   n n=2 a	   3 n=8 n	1 .20	   .20	   5	   3	   86
					2.00-6.00								1
		17-28		11.35-1.60		0.05-0.12		0.1-0.5	•	.15	i	i	i
					0.60-2.00				•		İ	i	İ
[18A:							 	 		l i	 	!	 
Foldahl	75	0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.14	0.0-2.9	2.0-4.0	1 .17	.17	   5	2	1 134
	i	12-30	1-10	1.45-1.60	6.00-20	0.07-0.12	0.0-2.9	0.2-1.0	.17	.17	i	i	i
		30-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Kratka	   10	   0-11	   5_18	  1 20-1 50	2.00-6.00	  0 16=0 18	   0 0-2 9	   3.0-8.0	1.20	   .20	   5	   3	   86
	10			1.30-1.60		0.06-0.11			1.17	.17	1	1	1 00
		18-25		11.30-1.60		0.06-0.12		0.1-0.5		.17	! !	¦	i
		25-80			0.60-2.00			0.0-0.5		.37	İ	i	İ
	_											4-	
Roliss	5	0-14			0.20-2.00	•	•	•	.24	.24	5	4L	86
		14-20 20-80			0.60-2.00 0.60-2.00	0.15-0.19			37	.37 .37	l I		
											İ	i	i
Flaming	4	0-12		1.20-1.40		0.10-0.12	•	•	•	.17	5	2	134
		12-17		1.30-1.50		0.06-0.12			•	.17	ļ	!	!
		17-27		1.30-1.50		0.05-0.12	•	0.2-1.0		.17		!	!
		27-60	   T-8	1.50-1.70  	0.00-20	0.05-0.10	0.0-2.9 	0.0-0.5 	.17	.17 	l I		
Grimstad	2	0-9	10-18	  1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		9-22		1.30-1.60		0.09-0.17	•	•	.20	.20			
		22-28		1.45-1.60		0.05-0.14		0.1-0.5	.20	.20			
		28-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	Moist	Permea-	  Available		   Organic	Erosi	on fac	tors	Wind  erodi-	erodi
component name	map unit			bulk	bility	water	extensi-	matter	!		! _	bility	
	l	l In	l   Pct	density g/cc	In/hr	capacity In/in	bility   Pct	l Pct	Kw	Kf 	<u>T</u> 	group 	index 
	į	į	į		•	į	į	į	į	į	į	į	į
A: nveldt	   2	   0-9	   5_15	  1 15_1 45	2.00-6.00	10 14-0 19	0 0-2 9	1 2 0-5 0		   .20	   5	   3	   86
nveidc	<del>2</del> 	0-3   9-16	•	11.25-1.50		0.12-0.18			1 .28	1 .28	1 2	1	00 
	! !	16-29		1.45-1.65		0.05-0.11		0.1-0.5	1.15	1.17	ŀ	<u> </u>	! !
	i	29-45		1.35-1.55		0.15-0.19		0.2-1.0	37	37	ŀ	i	¦
	į	45-80			0.60-2.00	1		0.0-0.5	.37	.37	į	į	į
kvoll	   1	   0-9	   2=10	  1.20-1.40	6 00-20	0.10-0.12	1 0 0-2 9	0.5-3.0		   .17	   5	   2	   134
	<del>-</del>	0-5   9-25		1.35-1.55		0.05-0.12		0.1-1.0	1 .15	1 .15	1 7	<del>*</del>	1 131
	! !	25-32		1.40-1.70		0.16-0.18		0.1-1.0	1 .37	1 .37	ŀ	<u> </u>	:
		32-80		1.35-1.55		0.15-0.19			.37	37		 	 
rathcona	   1	   0-10	   5_10	  1.20-1.50	2 00-20		0 0-2 9	3.0-8.0	1.20	   .20	   5	   3	   86
Tachcona	<del>-</del>	10-17		1.20-1.50   1.30-1.50		0.13-0.18		0.5-2.0	1 .24	1 .24	1 2	1	00 
	! !	17-28	•	1.35-1.60   1.35-1.60		0.05-0.12		0.1-0.5	1 .15	1	ŀ	<u> </u>	! !
	İ	28-80	•		0.60-2.00	•		0.0-0.5	.37	37			
A:	  -	 											 
xhome	l l 65	l   0-10	l   5_15	  1 15_1 45	2.00-6.00	I In 13-0 15	1 0 0-2 9	2.0-5.0	1 .20	1 .20	l I 5	l   3	l I 86
ATIOME	05 	10-15		11.40-1.60		0.13-0.13		0.2-1.0	1 .15	.20		1	00 
	i	15-23	•	1.50-1.70		0.02-0.07		0.1-0.5	.05	1.15	ŀ	i	¦
	İ	23-80	!	1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	i	İ	İ
ttson	   10	   0-10	   10-27	  1.00=1.30	0.60-2.00	10.20-0.22	0.0=2.9	2.0-5.0		   .24	   5	   5	   56
	I 10	10-17		1.35-1.55		0.12-0.19			32	.32		1	30 
	i	17-36	•	1.35-1.55		0.15-0.19		0.1-1.0	37	.37	i	i	i
	İ	36-60		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	i	İ	İ
randquist	   10	   0-10	   10-18	  1.10=1.40	2.00-6.00	10.20-0.22	0.0-2.9	   3.0-8.0	1.24	   .24	   5	   4L	   86
	i	10-20		11.50-1.70		10.02-0.07		0.5-2.0	1.10	1.15	-	i	00
	İ	20-60		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	i	İ	İ
ldahl	   5	   0-12	   5-15	  1.15=1.45	2.00-6.00	10.14-0.18	0.0=2.9	2.0-5.0	1.20	   .20	   5	   3	   86
	İ	1 12-30		1.45-1.60		0.07-0.12		0.2-1.0	1.17	1.17	-	i	00
	İ	30-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	i	İ	İ
imstad	   5	   0-9	   10-18	  1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0			   5	   3	   86
Imp caa	1	9-22		1.30-1.60		0.09-0.17		0.2-1.0	1 .20	.20	~	1	1
	i	22-28		11.45-1.60		0.05-0.14		0.1-0.5	1 .20	.20	i	i	i
	į		•	1.35-1.55		•			.37	.37		į	į
liss	   3	   0-14	   18-27	  1.10=1.50	0.20-2.00	10.17-0.24	3.0-5.9	3.0-8.0			   5	   4L	   86
	i	1 14-20		1.10-1.50   1.35-1.55		0.17-0.24			37	37		40	00 
	i			1.35-1.55		0.15-0.19	!			37	i	i	i
	İ		=3 50		2.00						i	i	İ
				l İ		1	I						

		D 1-1-							i			Wind	Wind
Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	Available		Organic	!			erodi-	,
component name	map unit			bulk	bility	water	extensi-	matter	77	   Kf	•	bility  group	
		In	l   Pct	density g/cc	In/hr	capacity In/in	bility   Pct	l Pct	Kw	l KI	l T	group 	Index
				9,00		/			i	i	i	i	
I19A:	İ		ĺ	İ		İ	ĺ	ĺ	İ	ĺ	ĺ	ĺ	İ
Mavie	2	0-12	•		2.00-6.00			3.0-8.0	.20	.20	3	3	86
ļ.		12-18		1.35-1.55		1		0.5-2.0	.28	.28	ļ	!	!
!		18-39	•	1.40-1.65		0.03-0.06		0.0-0.5	.10	.15	ļ.	!	!
		39-80	18-30	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
I20A:			 	 		 	! 	 	i	ŀ	ŀ	! 	
Foxlake	75	0-19	18-27	1.15-1.35	0.60-6.00	0.20-0.22	0.0-2.9	3.0-8.0	.24	.24	5	4L	86
į	i	19-38	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.5-2.0	.28	.28	i	i	i
į	i	38-49	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.1-0.5	.28	.28	i	i	i
j	į	49-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	İ	į
_											ļ _		
Clearwater	5	0-8			0.06-0.20	•		3.0-8.0	.28	.28	5	4	86
ļ		8-35		1.20-1.50		0.10-0.19		0.5-2.0	.32	.32	!	ļ	!
		35-80	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9 	0.0-0.5	.28	.28		 	
Foxlake, very cobbly	5	0-19	   18-27	  1.15-1.35	0.60-6.00	0.20-0.22	0.0-2.9	3.0-8.0	.20	.24	   5	   4L	l   86
· - i	i	19-38	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.5-2.0	.28	.28	i	i	i
į	i	38-49	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.1-0.5	.28	.28	i	i	i
į	į	49-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	į
  Augsburg	3	0-11	   15-22	  0.95-1.20	0.60-2.00	10.20-0.23	   0.0-2.9	   3.0-8.0	1 .28	1.28	   5	   4L	   86
	-	11-18		1.30-1.50		0.17-0.22		0.2-2.0	.28	.28	i	i	
i	i	18-33	•	1.40-1.60		0.17-0.22		0.1-0.5	.28	.28	i	i	i
j	i	33-60	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	i	į
Clearwater,			ļ									ļ	
depressional	3	0-8	   27-35	  1.20=1.45	0.20-2.00	0.17-0.30	   3.0=5.9	   3.0-15	1 .24	1 .24	l I 5	l l 6	l   48
depressional		8-35	•	1.20-1.50		0.10-0.19	•	1.0-3.0	.32	.32	~	i	10
		35-80		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	i	i	i
j	İ		ĺ	İ		İ	ĺ	ĺ	İ	ĺ	ĺ	ĺ	İ
Espelie	3	0-9			2.00-6.00	•		3.0-8.0	.20	.20	5	3	86
!		9-24		1.35-1.60		0.06-0.11		0.5-1.0	.17	.17	ļ	!	!
ļ		24-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Hilaire	2	0-10	   5-15	  1.15-1.45	2.00-6.00	0.10-0.12	l   0.0-2.9	2.0-5.0	1 .20	1 .20	l I 5	l l 2	1 134
į	i	10-34	1-8	1.35-1.60	6.00-20	0.07-0.11	0.0-2.9	0.5-1.0	.15	.15	i	i	i
į	į	34-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	į
   Reis	2	0-9	   40-60	  1 10-1 20	0.06-0.20	0.13-0.17	   6 0-8 º	   3.0-8.0	.28	   .28	   5	   4	   86
1010		9-17		1.10-1.50   1.20-1.50		0.13-0.17	•	0.5-8.0	1 .32	1 .32		<del>*</del> 	00
ļ		17-33	•			0.13-0.17		0.5-2.0	.32	32		i	1
		33-42			0.06-0.20	0.10-0.16		0.2-1.0	32	1.32	i	i	i
ļ	i	42-60	•	1.25-1.55		0.09-0.19		0.0-0.5	.28	1 .28	i	i	i
ļ	i	60-80	•			0.09-0.19		0.0-0.5	.28	.28	i	i	i

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind  erodi
component name	map unit			bulk	bility	water	extensi-	matter				bility	bilit
				density		capacity	bility		Kw	Kf	Т	group	index
	[	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
I20A:			 	! ! 			 	 		 	 		 
Wheatville	2	0-9	10-20	1.25-1.40	0.60-2.00	0.18-0.22	0.0-2.9	2.0-6.0	.28	.28	5	3	86
	I	9-31		1.30-1.50		0.17-0.22		0.2-2.0	.43	.43			
		31-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
I22A:				! ! 			 	 		 	 		 
Glyndon	75	0-11	15-22	1.05-1.25	0.60-2.00	0.20-0.23	0.0-2.9	2.0-6.0	.28	.28	5	4L	86
		11-28	10-18	1.30-1.50	0.60-6.00	0.17-0.22	0.0-2.9	0.2-2.0	.28	.28			
		28-60	5-18	1.35-1.65	0.60-6.00	0.08-0.22	0.0-2.9	0.0-0.5	.28	.28		!	
Borup	10	   0-12	   15-22	  0.95-1.20	0.60-2.00	0.20-0.23	0.0-2.9	3.0-8.0	.28	   .28	   5	   4L	   86
İ		12-34	10-18	1.30-1.50	0.60-6.00	0.17-0.22	0.0-2.9	0.2-2.0	.28	.28	ĺ	İ	İ
		34-60	5-18	1.35-1.65	0.60-6.00	0.08-0.22	0.0-2.9	0.0-0.5	.28	.28	į	ĺ	İ
Augsburg	5	   0-11	   15-22	  0.95-1.20	0.60-2.00	0.20-0.23	   0.0-2.9	   3.0-8.0	.28	   .28	   5	   4L	   86
i		11-18	5-18	1.30-1.50	0.60-6.00	0.17-0.22	0.0-2.9	0.2-2.0	.28	.28	İ	İ	İ
i		18-33	5-18	1.40-1.60	0.60-6.00	0.17-0.22	0.0-2.9	0.1-0.5	.28	.28	İ	İ	İ
		33-60	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28		!	
Ulen	5	   0-9	   8-18	  1.15-1.45	2.00-6.00	0.13-0.18	   0.0-2.9	2.0-5.0	.20	   .20	   3	3	   86
i		9-42	5-15	1.30-1.60	2.00-6.00	0.09-0.17	0.0-2.9	0.2-1.0	.24	.24	İ	İ	İ
		42-60	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15	İ	İ	
Wheatville	3	   0-9	   10-20	  1.25-1.40	0.60-2.00	0.18-0.22	   0.0-2.9	2.0-6.0	.28	   .28	   5	3	   86
		9-31	10-18	1.30-1.50	0.60-6.00	0.17-0.22	0.0-2.9	0.2-2.0	.43	.43	ĺ	İ	İ
		31-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28		!	
  Flaming	2	   0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0	.17	   .17	   5	   2	   134
İ		12-17	2-10	1.30-1.50	6.00-20	0.06-0.12	0.0-2.9	0.5-3.0	.17	.17	İ	İ	İ
İ	İ	17-27	2-8	1.30-1.50	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.17	.17	ĺ	İ	İ
		27-60	1-8	1.50-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17			
I24A:				! ! 			 	 		 	 		 
Grimstad	70	0-9	10-18	1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		9-22	5-15	1.30-1.60		0.09-0.17	0.0-2.9	0.2-1.0	.20	.20			
		22-28		1.45-1.60		0.05-0.14		0.1-0.5	.20	.20			
		28-60	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	 
Strathcona	12	0-10	5-18	  1.20-1.50	2.00-20	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	3	   86
	I	10-17				0.09-0.17		0.5-2.0	.24	.24			
I	I	17-28		1.35-1.60		0.05-0.12		0.1-0.5	.15	.15			
		28-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	 
Foldahl	5	0-12	5-15	  1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	   5	3	   86
	I	12-30	1-10	1.45-1.60	6.00-20	0.07-0.12	0.0-2.9	0.2-1.0	.17	.17			
		30-80	I 18-30	11.35-1.55	0.60-2.00	10.15-0.19	1.0-4.2	0.0-0.5	1.37	.37	1	1	1

	_	_	! -	. !		!	!	! .	FLOST	on fac	COLS		Wind
Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	Available		Organic	!			erodi-	•
component name	map unit			bulk	bility	water	extensi-	matter				bility	
		In	l Pct	density     g/cc	In/hr	capacity In/in	bility   Pct	   Pct	Kw	Kf	T 	group	lndex
i				9/CC   	111/111	111/111			i	i	i		i
124A:	i		i	i i		j	į	j	i	j	i	i	i
Hamerly	5	0-8		1.00-1.30		0.20-0.22		2.0-5.0	.24	.24	5	4L	86
Į.		8-25		1.35-1.55		0.15-0.19		0.2-2.0	.37	.37	ļ	ļ	ļ
l		25-60	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		 	
Foxhome	2	0-10	5-15	  1.15-1.45	2.00-6.00	0.13-0.15	0.0-2.9	2.0-5.0	.20	.20	5	   3	86
j	j	10-15	2-10	1.40-1.60	6.00-20	0.07-0.12	0.0-2.9	0.2-1.0	.15	.20	İ	į	į
I		15-23	1-5	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.1-0.5	.05	.15			
		23-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			!
  Karlsruhe	2	0-15	   5-15	  1.10-1.40	2.00-6.00	0.10-0.15	   0.0-2.9	2.0-6.0	1 .20	1 .20	l   5	   3	   86
i	i	15-30		1.20-1.60		0.09-0.14		0.5-2.0	.20	.20	i	i	i
į	į	30-60	0-5	1.30-1.60	6.00-40	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15	į	į	į
  Mavie	2	0-12	   10-18	  1.20-1.50	2.00-6.00	  0.16-0.18	   0.0=2.9	3.0-8.0	1.20	   .20	   3	   3	   86
	- 1	12-18		1.35-1.55		0.12-0.19		0.5-2.0	1 .28	.28	i		00
i	i	18-39		1.40-1.65		0.03-0.06		0.0-0.5	.10	.15	i	i	i
į	į	39-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
 	2	0-9	   8-18	  1.15=1.45	2.00-6.00	0.13-0.18	   0.0=2.9	2.0-5.0	1.20	   .20	   3	   3	   86
	- 1	9-42		1.30-1.60		0.09-0.17		0.2-1.0	1 .24	.24	i	i	00
į	i	42-60		1.45-1.65		0.05-0.08		0.0-0.5	.15	.15	İ	i	i
   125A:							 				 		
Hamar	75	0-12	2-10	  1.20-1.40	2.00-20	0.10-0.13	0.0-2.9	3.0-8.0	1 .17	1 .17	   5	2	1 134
İ	Ì	12-17	2-10	1.35-1.55	2.00-20	0.06-0.12	0.0-2.9	0.5-2.0	.17	.17	ĺ	İ	İ
I	I	17-40		1.45-1.65		0.06-0.10		0.0-0.5	.17	.17			
ļ	ļ	40-47		1.30-1.50		0.10-0.13		1.0-4.0	1.17	.17			1
		47-60	1-8 	1.45-1.65  	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	1.17	1.17	 		
Garborg	10	0-12	2-10	  1.20-1.40	6.00-20	0.10-0.13	0.0-2.9	2.0-6.0	1 .17	1 .17	5	2	134
İ	Ì	12-41	2-10	1.35-1.55	2.00-20	0.06-0.12	0.0-2.9	0.5-2.0	1.17	.17	ĺ	İ	İ
I		41-59		1.45-1.65		0.06-0.10	0.0-2.9	0.0-0.5	.17	.17			
		59-80	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17			
Rosewood	7	0-8	   5-18	  1.00-1.35	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.24	.24	   3	   3	   86
j	j	8-18	6-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24	İ	į	į
ļ	ļ	18-80	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15		ļ	
  Venlo	3	0-13	   5-10	  1.20-1.30	6.00-20	0.13-0.18	   0.0-2.9	   3.0-15	1 .20	1 .20	   5	   3	   86
į	į	13-60		1.45-1.65		0.06-0.10	0.0-2.9	0.0-0.5	.17	.17	į	į	į
   Flaming	2	0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.12	1 0.0-2.9	2.0-4.0	   .17	   .17	   5	   2	   134
 	-	12-17		1.20-1.40   1.30-1.50		0.06-0.12		0.5-3.0	1 .17	1 .17	i	i	101
i		17-27		1.30-1.50		0.05-0.12		0.2-1.0	.17	.17	i	i	i
		27-60	1_8	1.50-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17	i	i	i

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available		   Organic	Erosi	on ract	cors	erodi-	
component name	map unit		!	bulk	bility	water	extensi-	matter	!	!	ļ	bility	
				density		capacity	bility		Kw	Kf	T	group	index
		In	Pct	g/cc   	In/hr	In/in	Pct	Pct		 	 		 
I25A:							 	 		 			
Hangaard	2	0-10	8-18	1.10-1.40	2.00-6.00	0.10-0.15	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		10-15	5-15	1.10-1.45	6.00-20	0.07-0.11	0.0-2.9	1.0-3.0	.17	1.17			
		15-80	1-5	1.50-1.70	6.00-40	0.02-0.04	0.0-2.9	0.0-0.5	.10	.15			
Kratka	   1	   0-11	   5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	   .20	   5	   3	   86
	i	11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17	i	i	i
	i	18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17	i	i	i
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
126A:	 	 	 	 		 	 	 	 	 	 	l I	 
Hamerly	75	l 0-8	   18-27	1.00-1.30	0.60-2.00	0.20-0.22	3.0-5.9	2.0-5.0	.24	.24	5	   4L	l   86
•		8-25	•	1.35-1.55		0.15-0.19		0.2-2.0	.37	.37	i	i	i
		25-60	•	1.35-1.55		0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	i	İ
Vallers	   12	   0-12	10_27	  1.10-1.35	0.60-2.00	0.20-0.22	0 0-2 0	   3.0-8.0	1.24	   .24	   5	   4L	   86
variers	12	12-21	•	1.10-1.35   1.35-1.55		0.15-0.19	•	0.5-2.0	37	•24   •37	1 2	1 477	00 
		21-60		1.35-1.55   1.35-1.55		0.15-0.19		0.0-0.5	.37	37			! 
Foxhome	   3			  1.15-1.45	2.00-6.00						   5	   3	   86
FOXNOME	] 3	0-10	•			•		2.0-5.0	1 .15	.20	l ə	3	1 00
		10-15		1.40-1.60		0.07-0.12		0.2-1.0	,	.20		!	
		15-23   23-80	•	1.50-1.70   1.35-1.55		0.02-0.07		0.1-0.5	.05   .37	.15   .37	l I		 
		23-80	10-30		0.00-2.00		1.0-4.2	0.0-0.3	.3/	•37	 		 
Grimstad	3	0-9	10-18	1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		9-22	5-15	1.30-1.60	6.00-20	0.09-0.17	0.0-2.9	0.2-1.0	.20	.20			
		22-28	2-8	1.45-1.60	6.00-20	0.05-0.14	0.0-2.9	0.1-0.5	.20	.20			
		28-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Hamerly, very cobbly	3	   0-8	   18-27	  1.00-1.30	0.60-2.00	0.20-0.22	3.0-5.9	2.0-5.0	.20	.24	   5	   4L	   86
	İ	8-25	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-2.0	.37	.37	İ	İ	İ
		25-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Strathcona	   3	   0-10	   5-18	  1.20-1.50	2.00-20	0.13-0.18	   0.0-2.9	   3.0-8.0	1 .20	   .20	   5	   3	   86
		10-17	•	1.30-1.50		0.09-0.17	0.0-2.9	0.5-2.0	.24	.24	i	i	i
		17-28	•	1.35-1.60		0.05-0.12		0.1-0.5	1.15	.15	i	i	i
		28-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Roliss, depressional	   1	   0-14	   15-27	  1.10-1.40	0.20-2.00	10.20-0.25	   3.0-5.9	   3.0-15	1.24	   .24	   5	   6	   48
	-	14-20	•	11.35-1.55		•		1.0-3.0	.37	.37	i		i -3
		20-80	•	11.35-1.55				0.0-0.5	37	37	i	i	i
			İ				i	İ	i	i	İ	i	į

	Pct. of	Depth	Clay	Moist	Permea-	Available	Linear	Organic	i			erodi-	Wind  erodi-
component name	map unit		ĺ	bulk	bility	water	extensi-	matter	İ			bility	bility
			ĺ	density		capacity	bility	İ	Kw	Kf	Т	group	index
ļ		In	Pct	g/cc	In/hr	In/in	Pct	Pct	ļ	ļ	ļ		ļ
   I27A:			 	 		 	 	 		 	 	 	 
Hamre	80	0-13	0-0	0.10-0.40	0.20-6.00	0.35-0.48	j	50-95	.02	.02	5	2	134
j	i	13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32	İ	İ	İ
ĺ	İ	18-71	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ĺ	İ	İ
		71-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Northwood	5	0-9	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	.02	   4	2	134
ĺ	İ	9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15	ĺ	İ	İ
İ	İ	14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.15	.15	ĺ	İ	ĺ
İ	į	24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ		İ
Roliss	5	0-14	   18-27	  1.10-1.50	0.20-2.00	0.17-0.24	3.0-5.9	3.0-8.0	.24	1 .24	   5	   4L	   86
İ	İ	14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37	ĺ	İ	ĺ
		20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
  Smiley	5	   0-12	   18-27	  1.20-1.50	0.60-2.00	0.20-0.24	0.0-2.9	   3.0-8.0	.24	   .24	   5	   5	   56
i	i	12-19	18-35	1.35-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.5-2.0	.24	.24	i	i	i
j	i	19-42	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	İ	İ	İ
į	į	42-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
   Cathro	3	0-11	   0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	   75-95	.02	.02	   2	2	134
I		11-23	0-0	0.10-0.35	0.20-6.00	0.35-0.48		85-95	.02	.02			
		23-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-1.0	.37	.37			
  Kratka	2	0-11	   5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	   3.0-8.0	.20	   .20	   5	3	   86
İ	İ	11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17	ĺ	İ	ĺ
I		18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17			
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
I32A:			 				 	 		 	 	 	 
Hilaire	75	0-10	5-18	1.25-1.45	2.00-6.00	0.13-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
I		10-34	1-8	1.35-1.60	6.00-20	0.07-0.11	0.0-2.9	0.5-1.0	.15	.15			
I		34-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Espelie	12	0-9	5-18	  1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	3	   86
I		9-24	3-10	1.35-1.60	2.00-20	0.06-0.11	0.0-2.9	0.5-1.0	.17	.17			
ļ	ļ	24-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Huot	5	0-14	   5-15	ı  1.15-1.45	2.00-6.00	0.13-0.18	0.0-2.9	2.0-5.0	.20	.20	   5	3	   86
İ	Ì	14-26	5-15	1.30-1.60	2.00-6.00	0.09-0.17	0.0-2.9	0.2-1.0	.20	.20			
İ	İ	26-34	2-8	1.55-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.20	.20			
1		34-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	Moist     Moist     bulk	Permea-	  Available   water	   Linear  extensi-	   Organic	LETOS1	on fac	uors 	erodi-	
component name	map unit	 		bulk     density	bility	water  capacity	bility	matter	   Kw	   Kf	   m	bility  group	
	<u> </u>	   In	Pct	g/cc	In/hr	In/in	Pct	Pct	KW	   <u>vr</u>	<u>-</u>	 	Index
		ĺ	į	į		į	į	į	į	į	į	į	į
I32A: Flaming	   2	   0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0	.17	   .17	   5	   2	   134
	- i	12-17		1.30-1.50		0.06-0.12		0.5-3.0	1.17	.17		i -	-0-
		17-27		1.30-1.50		0.05-0.12	0.0-2.9	0.2-1.0	.17	.17	i	i	i
	İ	27-60	1-8	1.50-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17	į	į	į
Foxlake	   2	   0-19	   18-27	  1.15-1.35	0.60-6.00	10 20-0 22	1 0 0-2 9	3.0-8.0	1.24	1.24	   5	   4L	   86
roxiake	<del>-</del>	19-38	•	1.25-1.45		0.09-0.19		0.5-2.0	1 .28	1 .28		42	1 00
		38-49		1.25-1.45		0.09-0.19		0.1-0.5	1 .28	1 .28	ŀ	i	i
		49-80		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28			
Wheatville	   2	   0-9		  1.25-1.40	0.60-2.00							   3	   86
wneatville	<u>4</u> 	0-9   9-31		1.25-1.40   1.30-1.50		0.18-0.22		2.0-6.0	.28	1 .43	5	3 	1 00
	 	31-80		1.30-1.50   1.25-1.55		0.17-0.22		0.0-0.5	.43	.28		 	 
	İ	İ	İ	i i		İ	į	į	İ	İ	į	İ	į
Thiefriver	1	0-12		1.20-1.45		0.13-0.18		3.0-8.0	.20	.20	5	3	86
		12-23		1.30-1.50		1		0.5-2.0	.24	.24	ļ.	!	ļ
		23-32		1.45-1.70		0.06-0.11		0.1-0.5	1.17	.17	!	ļ	ļ
	 	32-80 	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9 	0.0-0.5	.28	.28 		l I	 
Wyandotte	1	0-8	27-30	  1.20-1.45	0.60-2.00	0.14-0.19	0.0-2.9	3.0-8.0	.32	.32	5	4L	86
		8-15		1.25-1.50		0.14-0.18		0.2-2.0	.32	.32			
		15-34		1.40-1.70		0.02-0.07		0.1-0.5	1.10	1.15			
	l	34-60 	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			 
I34A:		 	¦								i	¦	! 
Huot	75	0-14	5-15	1.15-1.45	2.00-6.00	0.13-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		14-26	5-15	1.30-1.60	2.00-6.00	0.09-0.17	0.0-2.9	0.2-1.0	.20	.20			
		26-34		1.55-1.70		0.06-0.11		0.1-0.5	.20	.20			
	 	34-80 	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Thiefriver	12	   0-12	   8-18	  1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	5	   3	   86
		12-23	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24	ĺ	İ	İ
		23-32	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.17	.17			
		32-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28		ļ	
Hilaire	l   5	   0-10	   5-18	  1.25-1.45	2.00-6.00	0.13-0.18	0.0-2.9	2.0-5.0	.20	.20	   5	   3	   86
	i	10-34	1-8	1.35-1.60	6.00-20	0.07-0.11	0.0-2.9	0.5-1.0	.15	.15	i	i	i
		34-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	į
Flaming	   3	   0-12	2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0		   .17	   5	   2	   134
	i I	12-17		1.20-1.40   1.30-1.50		0.10-0.12		0.5-3.0	1 .17	1 .17		i ~	134
		17-27	•	1.30-1.50   1.30-1.50		0.05-0.12	•	0.2-1.0	1 .17	1 .17	i	i	i
		27-60		1.50-1.70		0.05-0.10		0.0-0.5	1 1	.17	i	i	i
	İ		į	į i		i	İ	i	i	į	į	i	i
			1			1	1	1	1	1			

			[			1		[	Erosi	on fac	tors		Wind
Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	Available		Organic	ļ			erodi-	
component name	map unit		!	bulk	bility	water	extensi-	matter	ļ	ļ	ļ	bility	
			L	density		capacity	bility		Kw	Kf	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	ļ	ļ		ļ	ļ
I34A:		İ	l I	 		 	l I	 		 	 	l I	l I
Foxlake	3	   0-19	I   18-27	  1.15=1.35	0.60-6.00	0.20-0.22	l   0.0-2.9	3.0-8.0	.24	.24	I I 5	   4L	ı İ 86
TOMERIC		19-38		11.25-1.45		0.09-0.19		0.5-2.0	.28	.28	~		1
		38-49		11.25-1.45		0.09-0.19		0.1-0.5	.28	.28	! 	ŀ	i
		49-80		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	i	İ	i
	ĺ		ĺ	į į		İ		ĺ	ĺ	ĺ	ĺ	ĺ	ĺ
Ulen	2	0-9				0.13-0.18		2.0-5.0	.20	.20	3	3	86
		9-42		1.30-1.60		•		0.2-1.0	.24	.24			
		42-60	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15			
I36A:			l I	 		 	 	 	 	 	l I	l I	l I
Kittson	70	0-10	10-27	  1.00-1.30	0.60-2.00	0.20-0.22	0.0-2.9	2.0-5.0	.24	.24	5	5	56
	İ	10-17	15-25	1.35-1.55	0.60-2.00	0.12-0.19	0.0-2.9	0.2-2.0	.32	.32	İ	İ	İ
	İ	17-36	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.1-1.0	.37	.37	İ	İ	İ
		36-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			l
D-14	10	0.14										4=	
Roliss	12	0-14			0.20-2.00				.24	.24	5	4L	86
· ·		14-20		1.35-1.55   1.35-1.55		0.15-0.19		0.5-2.0	37	.37   .37	l I		l I
i		20 00	1	I	0.00 2.00				•••	•3, 	i	i	 
Hamerly	5	0-8	18-27	1.00-1.30	0.60-2.00	0.20-0.22	3.0-5.9	2.0-5.0	.24	.24	5	4L	86
	İ	8-25	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-2.0	.37	.37	İ	İ	İ
İ	İ	25-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ĺ	ĺ	ĺ
	_												
Kratka	5	0-11   11-18			2.00-6.00	•		3.0-8.0	.20   .17	.20	5	3	86
		18-25		1.30-1.60   1.30-1.60		0.06-0.11		0.5-2.0	.17	.17   .17	l I		 
		25-80		1.30-1.60   1.35-1.55					37	37	l I		! !
				i i							i	i	i
Grimstad	3	0-9	10-18	1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		9-22	5-15	1.30-1.60	6.00-20	0.09-0.17	0.0-2.9	0.2-1.0	.20	.20	ĺ	İ	İ
		22-28	2-8	1.45-1.60	6.00-20	0.05-0.14	0.0-2.9	0.1-0.5	.20	.20			
		28-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ļ	ļ	!
Strandquist	   3	   0-10	   10 10	  1 10 1 40	2.00-6.00	10 20 0 22		   3.0-8.0	   .24	   .24	   5	   4L	   86
Scrandquisc	, <u> </u>	10-20		11.50-1.70		0.02-0.22		0.5-2.0	1 .10	1 .15	1 2	1 47	00 
		20-60		11.35-1.55					37	37	l I		! 
											İ	İ	i
Foxhome	2	0-10	5-15	1.15-1.45	2.00-6.00	0.13-0.15	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		10-15		1.40-1.60		0.07-0.12		0.2-1.0	.15	.20			
		15-23		1.50-1.70		0.02-0.07		0.1-0.5	.05	.15			
		23-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

			I	<u> </u>		<u> </u>			Erosi	on fac	tors	Wind	Wind
Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	Available	Linear	Organic	i			•	erodi-
component name	map unit			bulk	bility	water	extensi-	matter				bility	bility
		L	L	density		capacity	bility		Kw	Kf	T	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct				ļ	ļ
I38A:	! 	 	i i	 		 	! 	! 		l I		ŀ	
Kratka	70	0-11	5-18	1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17			
		18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17			
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		1	
Smiley	l   7	   0-12	   18-27	  1.20-1.50	0.60-2.00	0.20-0.24	0.0-2.9	3.0-8.0	.24	.24	   5	   5	   56
	İ	12-19	18-35	1.35-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.5-2.0	.24	.24	İ	İ	İ
	İ	19-42	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	i	İ	İ
	į	42-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Foldahl	   5	   0-12	   5-15	  1.15-1.45	2.00-6.00	  0.14-0.18	   0.0-2.9	   2.0-5.0	1 .20	   .20	   5	3	   86
	i	12-30		1.45-1.60		0.07-0.12		0.2-1.0	.17	.17	i	i -	
	İ	30-80				0.15-0.19		0.0-0.5	.37	.37	i	i	i
Kratka, very cobbly	   5	   0-11	   5_10	  1 20_1 50	   2.00-6.00	10 16-0 19	0 0-2 0	3.0-8.0			   5	3	   86
Riacka, Very CODDIY	1 3	11-18		1.30-1.60		0.16-0.16		0.5-2.0	1 .17	1 .17		1 3	1 00
	! !	18-25		1.30-1.60			0.0-2.9		1 .17	1.17		1	
	<u> </u>	25-80			0.60-2.00			0.0-0.5	37	.37	i	i	i
at well and													
Strathcona	5	0-10   10-17		1.20-1.50		0.13-0.18		3.0-8.0	.20	.20	5	3	86
	l I	10-17   17-28		1.30-1.50  1.35-1.60		0.09-0.17		0.1-0.5	1 .15	1 .15			
	! 	28-80			0.60-2.00			0.0-0.5	.13	.13		i	i
	į	į	į	İ		į	į	į	į	į	į	į	į
Kratka, depressional	3	0-11		1.20-1.50		0.20-0.30		3.0-15	.20	.20	5	2	134
	!	11-18		1.30-1.60		0.06-0.11		0.5-2.0	.17	.17	!	!	!
		18-25		1.30-1.60		0.06-0.12		0.1-0.5	.17	.17	!	!	ļ
	 	25-80 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19 	1.0-4.2 	0.0-0.5 	.37	.37 	 		l I
Strandquist	3	0-10	10-18	1.10-1.40	2.00-6.00	0.20-0.22	0.0-2.9	3.0-8.0	.24	.24	5	4L	86
		10-20		1.50-1.70		0.02-0.07		0.5-2.0	.10	.15			
	 	20-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Linveldt	2	   0-9	   5-15	  1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		9-16	12-25	1.25-1.50	0.60-6.00	0.12-0.18	0.0-2.9	0.2-2.0	.28	.28			
		16-29	1-8	1.45-1.65	6.00-20	0.05-0.11	0.0-2.9	0.1-0.5	.15	.17			
		29-45	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
		45-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
I39A:	! 	 		 				 					
Linveldt	65	0-9	5-15	1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
	I	9-16	12-25	1.25-1.50	0.60-6.00	0.12-0.18	0.0-2.9	0.2-2.0	.28	.28			
	l	16-29	1-8	1.45-1.65	6.00-20	0.05-0.11	0.0-2.9	0.1-0.5	.15	.17			
		29-45	•		0.60-2.00	•	•	0.2-1.0	.37	.37			
	I	45-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		[	
						1							

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind  erodi-
component name	map unit	i	i -	bulk	bility	water	extensi-	matter	i	I	ı	bility	
2000		İ	i	density		capacity	bility		Kw	Kf	т	group	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	Ī				
39A:													
Kratka	14	   0-11	 		2.00-6.00	10 16 0 10	1 0 0 0 0	3.0-8.0	1 .20	1 .20	   5	   3	l I 86
Kratka	14	0-11   11-18		1.20-1.50   1.30-1.60		0.16-0.18		0.5-2.0	1.17	1 .17	> 	] 3	00 
		11-16   18-25		1.30-1.60   1.30-1.60		0.06-0.11		0.1-0.5	1 .17	1 .17	l I	l i	!
		25-80		1.35-1.55		0.15-0.19		0.0-0.5	37	37	 	İ	i
	İ	İ	i	i i		į	į	į	i	į	İ	į	i
Reiner	10	0-7	5-15	1.10-1.35	2.00-6.00	0.16-0.18	0.0-2.9	2.0-5.0	.20	.24	5	3	86
		7-17	25-35	1.40-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.2-2.0	.32	.32			
		17-35			0.60-2.00			0.2-1.0	.37	.37			
		35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Smiley	l 5 l	   0-12	   18-27	  1.20-1.50	0.60-2.00	10.20-0.24	   0.0-2.9	3.0-8.0	1 .24	   .24	l I5	l l 5	l l 56
		12-19		1.35-1.65		0.15-0.19	•	0.5-2.0	.24	.24	i	i	i
	i	19-42		1.35-1.55		0.15-0.19		0.2-1.0	.37	.37	i	i	i
	i	42-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	İ	i	i
											_		
Eckvoll	3	0-9		1.20-1.40		0.10-0.12		0.5-3.0	.17	.17	5	2	134
		9-25 25-32		1.35-1.55		0.05-0.12		0.1-1.0	.15	.15			
		25-32   32-80		1.40-1.70   1.35-1.55		0.15-0.18		0.1-1.0	37	37	l I	l I	l I
		32 00	10 30		0.00 2.00				•••	•37	i	i	<u> </u>
Foldahl	2	0-12	5-15	1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		12-30	1-10	1.45-1.60	6.00-20	0.07-0.12	0.0-2.9	0.2-1.0	1.17	.17			
		30-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Pelan	1 1	l l 0-6	   5-15	  1.10-1.35	2.00-6.00	  0.13-0.15	   0.0-2.9	1.0-3.0	.20	   .24	l I5	   3	l l 86
	i	6-9		1.35-1.55		0.05-0.12		0.2-1.0	.15	.15	i	i	i
i	i	9-14	15-25	1.45-1.65	6.00-20	0.03-0.11	0.0-2.9	0.2-1.0	.20	.24	i	i	i
	i	14-20	1-5	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.15	i	İ	i
	İ	20-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
I41A:		 											
Markey	l 80	l l 0-32	I I 0-0	  0.10-0.35	0.20-6.00	l   0.35=0.48	 	l   75-95	1 .02	1 .02	l I 2	   2	   134
narney		32-60		1.40-1.65		0.03-0.10		0.0-0.5	1.15	1.15	i -	i -	131
	İ	İ	İ	j j		İ	İ	į	İ	İ	İ	İ	İ
Deerwood	12	0-10		0.15-0.35				50-95	.02	.02	3	2	134
		10-12	•	1.25-1.45		0.09-0.17	•	2.0-10	.17	.17	ļ	!	ļ
		12-60 	1-8	1.50-1.70	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	1.15	1.17	 		
Berner	2	   0-28	0-0	ı  0.10-0.35	0.20-6.00	0.35-0.48		   75-95	.02	1 .02	   2	   2	   134
i	i	28-31		1.25-1.45		0.10-0.18		2.0-10	.17	.24	i	i	i
i	i	31-44		1.45-1.65		0.05-0.10		0.1-0.5	.05	.15	İ	i	i
İ	į	44-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	İ	İ
	l İ			ı i					1				

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	Available		Organic	į	1		Wind  erodi-	
component name	map unit			bulk	bility	water	extensi-	matter	 			bility	
		In In	l Pct	density     g/cc	In/hr	capacity In/in	bility   Pct	l Pct	Kw	Kf	T	group	index
		111		9/00	111/111	111/111			i	 	i	<u> </u>	İ
I41A:	į		İ	j j		j	İ	İ	İ	į	İ	İ	İ
Hamar	2	0-12		1.20-1.40		0.10-0.13		3.0-8.0	.17	.17	5	2	134
ļ		12-17		1.35-1.55		0.06-0.12		0.5-2.0	.17	.17		!	
ļ.		17-40		1.45-1.65		0.06-0.10		0.0-0.5	.17	.17	ļ .	!	ļ
!		40-47		1.30-1.50		0.10-0.13		1.0-4.0	.17	.17	ļ.	!	!
		47-60	1-8 	1.45-1.65  	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	1.17		 	l I
Seelyeville	2	0-10	   0-0	  0.10-0.25	0.20-6.00	0.35-0.48	 	   75-99	.02	.02	3	   2	134
j	į	10-80	0-0	0.10-0.25	0.20-6.00	0.35-0.48	j	75-99	.02	.02	į	İ	į
	_												
Syrene	2	0-9			0.60-2.00			3.0-8.0	.20	.20	3	3	86
	!	9-17		1.30-1.50		0.12-0.19		0.5-2.0	.32	.32	!	!	!
	!	17-27		1.50-1.70		0.02-0.04		0.0-0.5	.05	1.10	!	!	!
		27-60	1-5 	1.50-1.70  	6.00-20	0.02-0.04	0.0-2.9 	0.0-0.5	.05 	.10		 	l I
I42A:	i		i	i i			İ	İ	i	<u> </u>	i	i	İ
Markey, ponded	85	0-32	0-0	0.10-0.35	0.20-6.00	0.35-0.48		75-95	.02	.02	2	8	0
		32-60	0-10	1.40-1.65	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	.15	.15		ļ	ļ
  Markey	5 I	0-32	   0-0	  0.10-0.35	0.20-6.00	  0.35=0.48	 	   75-95	1.02	   .02	   2	   2	   134
	j	32-60		1.40-1.65		0.03-0.10		0.0-0.5	1.15	1.15	į ~	<del>-</del>	131
į	į		į	j j		İ	į	İ	İ	İ	į	İ	į
Deerwood	4	0-10		0.15-0.35				50-95	.02	.02	3	2	134
ļ		10-12		1.25-1.45		0.09-0.17		2.0-10	.17	.17		!	
		12-60	1-8	1.50-1.70	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	1.15	.17			
Seelyeville, ponded	4	0-10	l   0-0	  0.10-0.25	0.20-6.00	0.35-0.48	 	   75-99	.02	1 .02	   3	l   8	l   0
i	i	10-80	0-0	0.10-0.25	0.20-6.00	0.35-0.48		75-99	.02	.02	į	i	į
ļ	.										ļ _		
Hamar	1	0-12		1.20-1.40		0.10-0.13		3.0-8.0	1.17	1.17	5	2	134
!	!	12-17		1.35-1.55		0.06-0.12		0.5-2.0	1.17	.17	!	!	!
!	!	17-40		1.45-1.65		0.06-0.10		0.0-0.5	1.17	.17	!	!	!
	!	40-47		1.30-1.50		0.10-0.13		1.0-4.0	1.17	1.17	!	!	!
		47-60	   1-8	1.45-1.65  	2.00-20	0.06-0.10	0.0-2.9 	0.0-0.5	.17	.17 		l I	l I
Hangaard	1	0-10	8-18	  1.10-1.40	2.00-6.00	0.10-0.15	0.0-2.9	3.0-8.0	.20	.20	5	3	86
İ	j	10-15	5-15	1.10-1.45	6.00-20	0.07-0.11	0.0-2.9	1.0-3.0	.17	.17	ĺ	İ	ĺ
	İ	15-80	1-5	1.50-1.70	6.00-40	0.02-0.04	0.0-2.9	0.0-0.5	.10	.15	ļ	!	ļ
   143A:			 			 	 	 		 	 	l I	l I
Mavie	70 l	0-12	   10-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	1 .20	3	   3	   86
i	i	12-18		1.35-1.55		0.12-0.19	0.0-2.9	0.5-2.0	.28	.28	İ	i	İ
i	i	18-39		1.40-1.65		0.03-0.06	0.0-2.9	0.0-0.5	.10	.15	i	i	İ
:		39-80	10 20	1.35-1.55	0.60-2.00	0 15 0 10	1 1 0-4 2	0.0-0.5	.37	.37	i	i	i

Map symbol and	   Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind  erodi-
component name	map unit  			bulk   density	bility	water	extensi-	matter	   Kw	   K£	   т	bility	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct			<u>  -                                   </u>	 	
I43A:	 		 	 		 	 	 		 	 	 	 
Vallers	10	0-12	18-27	1.10-1.35	0.60-2.00	0.20-0.22	0.0-2.9	3.0-8.0	.24	.24	5	4L	86
	İ	12-21	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37	ĺ	İ	ĺ
		21-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Strandquist		0-10	10-18	  1.10-1.40	2.00-6.00	0.20-0.22	   0.0-2.9	3.0-8.0	.24	.24	   5	   4L	   86
		10-20	1-8	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.5-2.0	1.10	.15			
		20-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Strathcona	   5	0-10	   5-18	  1.20-1.50	2.00-20	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	3	   86
		10-17	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		17-28	2-8	1.35-1.60	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	1.15	.15			
		28-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Strathcona,							 	 				 	 
depressional	3	0-10	5-18	1.20-1.50	2.00-20	0.20-0.30	0.0-2.9	3.0-15	.20	.20	3	3	86
		10-17		1.30-1.50		0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		17-28		1.35-1.60		0.05-0.12		0.1-0.5	1.15	.15			
	 	28-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	 
Foxhome	2	0-10		  1.15-1.45		0.13-0.15		2.0-5.0	.20	.20	5	3	86
		10-15		1.40-1.60		0.07-0.12		0.2-1.0	1.15	.20			
		15-23		1.50-1.70		0.02-0.07		0.1-0.5	.05	.15			
	 	23-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 		l I	l I
Karlsruhe	2	0-15			2.00-6.00	0.10-0.15		2.0-6.0	.20	.20	5	3	86
		15-30		1.20-1.60		0.09-0.14		0.5-2.0	.20	.20			
		30-60	0-5	1.30-1.60  	6.00-40	0.02-0.07	0.0-2.9	0.0-0.5	1.10	1.15			 
Grimstad	1 1	0-9	10-18	  1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		9-22		1.30-1.60		0.09-0.17		0.2-1.0	.20	.20			
		22-28		1.45-1.60		0.05-0.14		0.1-0.5	.20	.20	ļ	!	
	 	28-60 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	l I
I44A:			i	i i		İ	İ	<u> </u>		İ	i	i	
Newfolden	75	0-7		1.00-1.30		0.20-0.22	0.0-2.9	2.0-5.0	.24	.24	5	5	56
		7-16		1.20-1.50		0.10-0.19		0.2-2.0	.32	.32			
		16-36		1.35-1.55		0.15-0.19		0.2-1.0	.37	.37	ļ	ļ.	ļ
	 	36-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2 	0.0-0.5	.37	.37 	 	 	 
Smiley	12	0-12		  1.20-1.50		0.20-0.24		3.0-8.0	.24	.24	5	5	56
		12-19		1.35-1.65		0.15-0.19		0.5-2.0	.24	.24	ļ		
		19-42		1.35-1.55		0.15-0.19		0.2-1.0	.37	.37	ļ	ļ.	ļ
		42-80	1 18-30	1.35-1.55	0.60-2.00	0.15-0.19	1 1 0-4 2	0.0-0.5	.37	.37	1	i .	1

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fact	tors	,	Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter				bility	bility
			İ	density		capacity	bility		Kw	Kf	Т	group	index
	 	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
144A:			 	 			 	! 		! 	 	 	 
Boash	8	0-9	27-40	1.20-1.45	0.06-0.20	0.17-0.19	6.0-8.9	3.0-8.0	.32	.32	5	4	86
		9-29	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	0.5-2.0	.32	.32			
	 	29-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Linveldt	   4	   0-9	   5-15	  1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	   5	3	   86
		9-16	12-25	1.25-1.50	0.60-6.00	0.12-0.18	0.0-2.9	0.2-2.0	.28	.28			
		16-29	1-8	1.45-1.65	6.00-20	0.05-0.11	0.0-2.9	0.1-0.5	.15	.17			
		29-45	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
		45-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Hapludolls	   1	   0-9	   15-27	  1.00-1.30	0.60-2.00	0.17-0.22	   3.0-5.9	1 1.0-5.0	.28	.28	   5	   6	   48
		9-60	15-35	1.20-1.50	0.60-2.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.28	į	į	į
I45A:	 		 	 		 	 	 		 	l I		 
Northwood	75	0-9	0-0	0.10-0.40	0.20-6.00	0.35-0.48	i	50-95	.02	.02	4	2	134
	i	9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15	i	i	i
	i	14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	•	0.1-0.5	.15	.15	i	i	i
		24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Hamre	   10	   0-13	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	1.02	   .02	   5	   2	   134
	i	13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32	i	i	i
	i	18-71	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	i	i	i
		71-80				0.15-0.19	•	0.0-0.5	.37	.37	į	į	į
Berner	l I 5	   0-28	   0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	   75-95	1.02	   .02	   2	   2	   134
		28-31	5-15	1.25-1.45	2.00-6.00	0.10-0.18	0.0-2.9	2.0-10	.17	.24	i	i	i
		31-44	•	1.45-1.65		0.05-0.10		0.1-0.5	.05	.15	i	i	i
		44-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Kratka	l l 5	   0-11	   5-18	  1.20-1.50	2.00-6.00	  0.16-0.18	   0.0-2.9	   3.0-8.0	1 .20	   .20	   5	   3	   86
	i	11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17	i	i	i
	i	18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17	i	i	i
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Strandquist	   3	   0-10	   10-18	  1.10-1.40	2.00-6.00	0.20-0.22	   0.0-2.9	   3.0-8.0	1.24	   .24	   5	   4L	   86
	_	10-20		11.50-1.70		0.02-0.07	•	0.5-2.0	1.10	1.15	i	i	i
		20-60			0.60-2.00			0.0-0.5	.37	.37	İ	i	İ
Roliss	   2	   0-14	   18-27	  1 10-1 50	0.20-2.00	10 17-0 24	3 0-5 9	   3.0-8.0	1.24	   .24	   5	   4L	   86
MOTIBE	<del>'</del>	14-20			0.60-2.00	•	•	0.5-2.0	1 .37	37	1	44	00 
	 	14-20   20-80			0.60-2.00			0.5-2.0	37		I I		
		20-00	10-30		5.00-2.00		1.0-1.2		.3/	.3,			

Map symbol and	   Pct. of	Depth	   Clay	   Moist	Permea-	  Available	Linear	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind  erodi-
component name	map unit	-		bulk	bility	water	extensi-	matter		Ī	ī	bility	
			i	density		capacity	bility		Kw	K£	т	group	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	İ	<u> </u>	İ		İ
I46A:	 		 	 		 		 		 	 	 	 
Pits	85   									 	-		
Udipsamments	10	0-14		  1.30-1.50		0.05-0.10		0.1-0.5	.15	.15	5	1	220
		14-60		1.50-1.70		0.05-0.08		0.0-0.2	1.10	.10			
		60-80	1-5 	1.50-1.70  	20-60	0.03-0.05	0.0-2.9	0.0-0.2	.05	.10 	 	 	 
Radium	2	0-14		  1.20-1.40		0.06-0.12		1.0-3.0	.17	.17	5	2	134
		14-33		1.40-1.65		0.03-0.08	0.0-2.9	0.0-0.5	1.10	.10			
		33-43		1.55-1.75		0.02-0.05		0.0-0.5	1.10	.17			
		43-80	1-5 	1.55-1.75	6.00-20	0.03-0.09	0.0-2.9	0.0-0.5	1.10	1.17		 	 
Maddock	1 1	0-10	2-10	  1.20-1.40	2.00-20	0.10-0.12	0.0-2.9	1.0-3.0	.17	1 .17	5	2	134
		10-14	1-8	1.30-1.50	2.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.17	.17			
		14-60	1-8	1.45-1.65	2.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17			
Marquette	1	0-6	1 1-10	  1.40-1.60	6.00-20	0.10-0.14	0.0-2.9	1.0-3.0	1 .17	   .17	   5	2	134
	İ	6-9	1-10	1.30-1.55	2.00-20	0.10-0.14	0.0-2.9	0.5-1.0	.20	.20	ĺ	İ	İ
		9-14	5-18	1.50-1.70	2.00-6.00	0.10-0.16	0.0-2.9	0.5-1.0	.15	.20			
		14-60	1-5	1.50-1.70	20-60	0.02-0.04	0.0-2.9	0.0-0.5	.05	1.15			
Sandberg		0-12	2-10	  1.20-1.40	6.00-20	0.10-0.12	   0.0-2.9	1.0-3.0	1 .17	   .17	   5	2	134
		12-19	1-5	1.50-1.70	6.00-20	0.03-0.10	0.0-2.9	0.5-1.0	.05	.10			
		19-29	1-5	1.50-1.70	20-40	0.02-0.06	0.0-2.9	0.5-1.0	.05	.10			
		29-80	1-5	1.50-1.70	20-40	0.02-0.04	0.0-2.9	0.0-0.5	.05	.10			
I47A:	 			! ! 				 		 	 	 	 
Poppleton	75	0-6	2-10	1.20-1.40	6.00-20	0.08-0.10	0.0-2.9	0.5-2.0	.15	.15	5	1	250
		6-9	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15			
		9-40		1.35-1.55		0.05-0.12		0.1-0.5	.15	.15			
		40-60	1-8	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	1.15	1.15			 
Flaming	12	0-12	2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0	1 .17	1 .17	   5	2	134
		12-17	2-10	1.30-1.50	6.00-20	0.06-0.12	0.0-2.9	0.5-3.0	.17	.17			
		17-27	2-8	1.30-1.50	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.17	.17			
		27-60	1-8	1.50-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	1.17			
Garborg	   5	0-12	2-10	  1.20-1.40	6.00-20	0.10-0.13	0.0-2.9	2.0-6.0	1 .17	   .17	   5	2	134
		12-41	2-10	1.35-1.55	2.00-20	0.06-0.12	0.0-2.9	0.5-2.0	.17	.17			
		41-59	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17			
		59-80	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	1.17	.17	1	1	

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available		   Organic	Erosi	on fac			erodi-
component name	map unit			bulk	bility	water	extensi-	matter				bility	bility
			L	density		capacity	bility	<u> </u>	Kw	Kf	Т	group	index
	 	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
147A:	 	 	 				! 	! 	ŀ				
Hamar	3	0-12		1.20-1.40		0.10-0.13		3.0-8.0	1.17	1.17	5	2	134
		12-17		1.35-1.55		0.06-0.12		0.5-2.0	1.17	1.17			
		17-40		1.45-1.65		0.06-0.10		0.0-0.5	.17				
		40-47		1.30-1.50		0.10-0.13		1.0-4.0	.17	.17			
	 	47-60 	1-8 	1.45-1.65  	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	1.17	.17 		 	 
Radium	2	   0-14	   2-8	1.20-1.40	6.00-20	0.06-0.12	0.0-2.9	1.0-3.0	1 .17	1 .17	5	2	134
		14-33	1-8	1.40-1.65	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	.10	.10			
		33-43	1-5	1.55-1.75	20-40	0.02-0.05	0.0-2.9	0.0-0.5	.10	.17			
		43-80	1-5	1.55-1.75	6.00-20	0.03-0.09	0.0-2.9	0.0-0.5	.10	.17		ļ	
Ulen	   2	   0-9	   2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-5.0	.17	   .17	   5	2	   134
	j	9-42	5-15	1.30-1.60	2.00-6.00	0.09-0.17	0.0-2.9	0.2-1.0	.24	.24	İ	İ	İ
		42-60	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15	į	į	İ
Maddock	   1	   0-10	   2-10	  1.20-1.40	2.00-20	0.10-0.12	   0.0-2.9	   1.0-3.0	.17	   .17	   5	   2	   134
	j	10-14	1-8	1.30-1.50	2.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.17	.17	i	i	i
		14-60		1.45-1.65		0.05-0.10	0.0-2.9	0.0-0.5	.17	.17	į	į	į
148A:	 	 	 	 			 	 		 		 	 
Radium	l 75	   0-14	l   2-8	1.20-1.40	6.00-20	0.06-0.12	0.0-2.9	1.0-3.0	.17	.17	   5	2	1 134
		14-33		1.40-1.65		0.03-0.08		0.0-0.5	1.10	.10	i	i	i
		33-43		1.55-1.75		0.02-0.05		0.0-0.5	1.10	.17	i	i	i
		43-80	1-5	1.55-1.75	6.00-20	0.03-0.09	0.0-2.9	0.0-0.5	.10	.17	į	į	į
Sandberg	   7	   0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.12	   0.0-2.9	   1.0-3.0		   .17	   5	   2	   134
241142023	,	12-19		1.50-1.70		0.03-0.10		0.5-1.0	.05	1.10	i	i -	-0-
	i	19-29		1.50-1.70		0.02-0.06		0.5-1.0	.05	1.10	i	i	i
		29-80		1.50-1.70		0.02-0.04		0.0-0.5	.05	1.10	İ	İ	İ
Ovlen	   5	   0-10	   5-12	  1.50-1.70	2.00-6.00	0.12-0.16	   0.0-2.9	   2.0-4.0	1.20	   .20	   3	   3	   86
0, 2011	İ	10-18			0.60-2.00	0.12-0.18		0.5-2.0	.24	.24	i		
	i	18-38		1.45-1.60		0.03-0.08		0.0-0.5	1.10	1.10	i	i	i
		38-80		1.45-1.60		0.03-0.07		0.0-0.5	.05	1.10	İ		
Flaming	   4	   0-12	   2-10	  1.20-1.40	   6 00-20	0.10-0.12	0 0-2 9	2.0-4.0		   .17	   5	   2	   134
r taming	] <del>*</del>	12-17		1.30-1.50		0.10-0.12		0.5-3.0	1 .17	1 .17	1	4	1 131
		17-27		1.30-1.50		0.05-0.12		0.3-3.0	1 .17	1 .17	i		
		27-60		1.50-1.70		0.05-0.12		0.0-0.5	1 .17	1 .17	İ		
Garborg	   3	   0-12	2_10	  1.20-1.40	   6 00-20	  0.10-0.13	   0.0-2.9	2.0-6.0		   .17	   5	   2	   134
Garborg	, ,	12-41		1.35-1.55		0.10-0.13		0.5-2.0	1 .17	1 .17		<b>-</b>	1 134
	 	12-41		1.45-1.65		0.06-0.12		0.5-2.0	1 .17	1 .17	:		
		59-80		11.45-1.65		0.06-0.10		0.0-0.5	1 .17	1 .17	i		
			- 0										

	Pct. of   map unit	In  0-10 10-15 15-80  0-12 12-17 17-40 40-47 47-60	5-15   1-5   2-10   2-10   1-8	Moist   bulk   density   g/cc	6.00-20 6.00-40	capacity   In/in      0.10-0.15  0.07-0.11  0.02-0.04	extensi-   bility   Pct  -   0.0-2.9   0.0-2.9	Organic   matter   Pct   3.0-8.0   1.0-3.0   0.0-0.5	Kw     Kw	Kf   Kf   .20   .17   .15	   	bility  group           3	
Hangaard      	2	0-10 10-15 15-80 0-12 12-17 17-40 40-47	8-18   5-15   1-5   2-10   2-10   1-8	  1.10-1.40   1.10-1.45   1.50-1.70     1.20-1.40   1.35-1.55	2.00-6.00 6.00-20 6.00-40	  0.10-0.15  0.07-0.11  0.02-0.04	     0.0-2.9   0.0-2.9	     3.0-8.0   1.0-3.0	.17	.17	       5 	       3	       86
Hangaard    	2	10-15 15-80 0-12 12-17 17-40 40-47	5-15   1-5   2-10   2-10   1-8	1.10-1.45   1.50-1.70     1.20-1.40   1.35-1.55	6.00-20 6.00-40	0.07-0.11  0.02-0.04	0.0-2.9	1.0-3.0	.17	.17	     5 	     3 	     86 
	2	10-15 15-80 0-12 12-17 17-40 40-47	5-15   1-5   2-10   2-10   1-8	1.10-1.45   1.50-1.70     1.20-1.40   1.35-1.55	6.00-20 6.00-40	0.07-0.11  0.02-0.04	0.0-2.9	1.0-3.0	.17	.17	5   	3 	86 
 	-         	15-80 0-12 12-17 17-40 40-47	1-5     2-10   2-10   1-8	1.50-1.70     1.20-1.40   1.35-1.55	6.00-40	0.02-0.04			1 .	1		ĺ	İ
 	-         	0-12 12-17 17-40 40-47	   2-10   2-10   1-8	  1.20-1.40   1.35-1.55		İ	0.0-2.9	0.0-0.5	.10	1.15	1	1	
Hamar        	-         	12-17 17-40 40-47	2-10   1-8	1.35-1.55	2.00-20	!		I	i				
       	       	17-40 40-47	1-8			0.10-0.13	   0.0-2.9	   3.0-8.0	.17	   .17	   5	   2	   134
	     	40-47		i	2.00-20	0.06-0.12	0.0-2.9	0.5-2.0	.17	.17	İ	İ	İ
	   		2-10	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17	ĺ	İ	İ
	 	47-60		1.30-1.50	2.00-20	0.10-0.13	0.0-2.9	1.0-4.0	.17	.17		İ	İ
l l	!		1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17		!	
Poppleton	1	0-6	   2-10	  1.20-1.40	6.00-20	0.08-0.10	   0.0-2.9	0.5-2.0	.15	   .15	   5	   1	   250
i	i	6-9	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15	i	i	i
j	į	9-40	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15	İ	İ	İ
	į	40-60	1-8	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.15	.15		į	į
I50A:			 	 		 	 	 	 	 	l I	l I	l I
Reiner	70	0-7	5-15	1.10-1.35	2.00-6.00	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
j	i	7-17	25-35	1.40-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.2-2.0	.32	.32	i	i	i
İ	i	17-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	i	i	i
	į	35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		į	į
Smiley	12	0-12	   18-27	  1.20-1.50	0.60-2.00	10.20-0.24	   0.0-2.9	   3.0-8.0	1 .24	   .24	l l 5	   5	l l 56
i	i	12-19	18-35	1.35-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.5-2.0	.24	.24	i	i	i
j	i	19-42	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	i	i	i
	į	42-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		į	į
Reiner, very cobbly	7 I	0-7	   5-15	  1.10-1.35	2.00-6.00	  0.16-0.18	   0.0-2.9	   2.0-5.0	   .17	   .20	l l 5	   3	   86
· · · · · i	i	7-17	25-35	1.40-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.2-2.0	.32	.32	i	i	i
i	i	17-35		1.35-1.55		0.15-0.19	•	0.2-1.0	.37	.37	i	i	i
	į	35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ĺ	į	į
Linveldt	5 I	0-9	   5-15	  1.15-1.45	2.00-6.00	0.14-0.18	   0.0-2.9	   2.0-5.0	1 .20	   .20	l l 5	   3	l I 86
i	i	9-16	12-25	1.25-1.50	0.60-6.00	0.12-0.18	0.0-2.9	0.2-2.0	.28	.28	i	i	i
i	i	16-29	1-8	1.45-1.65	6.00-20	0.05-0.11	0.0-2.9	0.1-0.5	.15	.17	i	i	i
İ	i	29-45	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	i	i	i
	į	45-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ĺ	į	į
Eckvoll	3	0-9	   2-10	  1.20-1.40	6.00-20	0.10-0.12	   0.0-2.9	   0.5-3.0	   .17	   .17	l l 5	   2	   134
i	i	9-25	•	1.35-1.55		0.05-0.12	•		.15	.15	i	i	i
i	i	25-32			0.20-2.00				.37	.37	i	i	i
i	i	32-80		1.35-1.55		0.15-0.19	•	0.0-0.5	.37	.37	i	i	i

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available		Organic	Erosi	on fac		erodi-	Wind  erodi-
component name	map unit	 	1	bulk   density	bility	water  capacity	extensi-	matter	l Kw	   K£		bility  group	
	l	l   In	l   Pct	density   g/cc	In/hr	capacity   In/in	bility   Pct	l Pct	KW	<u>KE</u>	l T	group 	Index
				9,00					i	<u> </u>	i	i	i
I50A:	į	İ	İ	j		į	į	İ	į	İ	İ	į	į
Kratka	3	0-11	5-18	1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17			
		18-25		1.30-1.60		0.06-0.12			.17	.17			
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			ļ
I51A:	 	 	 	 		 	 	 		 	 	 	l I
Reiner	65	0-7	2-10	1.20-1.40	6.00-20	0.10-0.13	0.0-2.9	1.0-3.0	.17	.17	5	2	134
		7-17	25-35	1.40-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.2-2.0	.32	.32	ĺ	İ	ĺ
		17-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	İ	İ	İ
		35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Smiley	   9	   0-12	   18-27	  1 20=1 50	0.60-2.00	  n 20=0 24	   0 0-2 9	   3.0-8.0	1.24	   .24	   5	   5	   56
SMITE)	, 	12-19	•		0.60-2.00			0.5-2.0	.24	.24	~	1	1
		19-42	•		0.60-2.00			0.2-1.0	1.37	.37	ŀ	i	i
	l I	42-80	•		0.60-2.00			0.0-0.5	37	37	i	i	i
	İ	12 00	1 10 50						•••	•••	i	İ	i
Reiner fine sandy loam	8	0-7	5-15	1.10-1.35	2.00-6.00	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
		7-17	25-35	1.40-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.2-2.0	.32	.32			
		17-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
		35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ļ	ļ	ļ.
Linveldt	   7	   0-9	   5_15	  1 15_1 45	2.00-6.00	  0 14=0 18	   0 0-2 9	   2.0-5.0	1.20	   .20	   5	   3	   86
	, 				0.60-6.00			0.2-2.0	1 .28	.28	~	1	1
		16-29	•	1.45-1.65		0.05-0.11		0.1-0.5	1.15	1.17	ŀ	i	i
	! 	29-45	•		0.60-2.00			0.2-1.0	37	37	ŀ	i	i
		45-80	•		0.60-2.00			0.0-0.5	.37	.37	İ	i	i
Translation (													
Kratka	5	0-11	•		2.00-6.00			3.0-8.0	.20	.20	5	3	86
	l i	11-18   18-25		1.30-1.60  1.30-1.60		0.06-0.11		0.5-2.0	1.17	.17   .17		 	
	l I	16-25   25-80			0.60-2.00			0.1-0.5	.17	37		l I	
	 	25-60 	10-30 	1.35-1.55	0.80-2.00		1.0-4.2	0.0-0.5	.3/	.3/		i i	i
Eckvoll	3	0-9	2-10	1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	0.5-3.0	.17	.17	5	2	134
		9-25	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-1.0	.15	.15			
		25-32	18-35	1.40-1.70	0.20-2.00	0.16-0.18	3.0-5.9	0.1-1.0	.37	.37			
		32-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		I	
Reiner, very cobbly	l l 3	   0-7	   5-15	  1.10-1.35	2.00-6.00	  0.16-0.18	   0.0-2.9	   2.0-5.0	.17	   .20	   5	   3	   86
, , , , , , , , , , , , , , , , , , , ,		7-17	•			0.15-0.19			.32		i	i	i
i		17-35	•		0.60-2.00				.37	.37	i	i	i
i	İ	35-80	•		0.60-2.00			0.0-0.5	.37	.37	i	i	i
j	İ	İ	i	İ		İ	i	i	i	i	İ	i	İ

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on rac	tors	wind  erodi-	Wind  erodi
component name	map unit		i I	bulk density	bility	water  capacity	extensi-	matter	   Kw	   Kf	   T	bility  group	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	!		<u> </u>	!	İ
I52A:			 	 		 	 	 		 		 	 
Reis	55	0-9	40-60	1.10-1.30	0.06-0.20	0.13-0.17	6.0-8.9	3.0-8.0	.28	.28	5	4	86
,		9-17	40-60	1.20-1.50	0.06-0.20	0.13-0.17	6.0-8.9	0.5-8.0	.32	.32			
,		17-33	40-60	1.20-1.50	0.06-0.20	0.13-0.17	6.0-8.9	0.5-2.0	.32	.32			
,		33-42	40-60	1.30-1.60	0.06-0.20	0.10-0.16	6.0-8.9	0.2-1.0	.32	.32			
,		42-60	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
		60-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Clearwater	30	0-8	40-60	  1.10-1.30	0.06-0.20	0.13-0.17	6.0-8.9	3.0-8.0	.28	.28	   5	4	   86
		8-35	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	0.5-2.0	.32	.32			
		35-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Clearwater, very			 				İ			İ			İ
cobbly	5	0-8	40-60	1.10-1.30	0.06-0.20	0.13-0.17	6.0-8.9	3.0-8.0	.24	.28	5	4	86
ļ.		8-35	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	0.5-2.0	.32	.32			
		35-80	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Clearwater,			İ	 						İ		İ	İ
depressional	3	0-8	27-35	1.20-1.45	0.20-2.00	0.17-0.30	3.0-5.9	3.0-15	.24	.24	5	6	48
		8-35		1.20-1.50		0.10-0.19		1.0-3.0	.32	.32			
		35-80	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	1 .28	.28 		 	 
Espelie	3	0-9	5-18	  1.20-1.45	2.00-6.00			3.0-8.0	.20	.20	5	3	86
		9-24	3-10	1.35-1.60	2.00-20	0.06-0.11	0.0-2.9	0.5-1.0	1.17	.17			
		24-80	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	1 .28	.28 		 	 
Hattie	3	0-8	40-60	  1.10-1.30	0.06-0.20	0.13-0.17	6.0-8.9	2.0-5.0	.28	.28	5	4	86
		8-22				0.10-0.19		0.2-2.0	.28	.28			
		22-80	35-60	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			 
Wyandotte	1	0-8	27-30	  1.20-1.45	0.60-2.00	0.14-0.19	0.0-2.9	3.0-8.0	.32	.32	5	   4L	86
1		8-15	•		0.60-2.00			0.2-2.0	.32	.32			
		15-34		1.40-1.70		0.02-0.07		0.1-0.5	1.10	1.15			
		34-60	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	1 .28	.28 		 	 
I53A:			i	, 			İ	i	i	İ	i	i	İ
Roliss	75	0-14				0.17-0.24			.24		5	4L	86
		14-20		1.35-1.55		0.15-0.19		0.5-2.0	.37	.37			
		20-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 			 
  Kratka	8	0-11	5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
!		11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17			
!		18-25		1.30-1.60		0.06-0.12		0.1-0.5	.17	.17			
		25-80	1 10 20	11 25 1 55	0.60-2.00	10 15 0 10	1 1 0-4 2	0.0-0.5	.37	.37	1	I	1

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	   Clay	   Moist     bulk	Permea-	  Available	:	   Organic	Erosi	on fac	tors	erodi-	Wind  erodi-
component name	map unit	l I	 	bulk     density	bility	water	extensi-	matter	   Kw	   Kf	l Im	bility  group	
		In	Pct	g/cc	In/hr	capacity In/in	Pct	l   Pct	KW	<u>KI</u>	<u>T</u> 	group 	Index
I53A:		 	 			[ 	 	 		 	 	 	 
Roliss, very cobbly	7	   0-14	1 18-27	  1.10-1.50	0.20-2.00	0.17-0.24	3.0-5.9	3.0-8.0	.20	.24	l I 5	   4L	l 86
		14-20		1.35-1.55		0.15-0.19			.37	.37	i	i	i
		20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Kittson	5	   0-10	   10-27	  1.00-1.30	0.60-2.00	  0.20-0.22	   0.0-2.9	   2.0-5.0	.24	   .24	   5	   5	   56
	İ	10-17	15-25	1.35-1.55	0.60-2.00	0.12-0.19	0.0-2.9	0.2-2.0	.32	.32	i	İ	İ
	ĺ	17-36	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.1-1.0	.37	.37	ĺ	İ	İ
		36-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ĺ		
Roliss, depressional	3	   0-14	   15-27	  1.10-1.40	0.20-2.00	  0.20-0.25	   3.0-5.9	   3.0-15	.24	   .24	   5	   6	   48
	ĺ	14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	1.0-3.0	.37	.37	ĺ	İ	İ
		20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Smiley	2	   0-12	   18-27	  1.20-1.50	0.60-2.00	0.20-0.24	0.0-2.9	3.0-8.0	.24	.24	   5	   5	   56
		12-19	18-35	1.35-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.5-2.0	.24	.24			
		19-42	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
		42-80	18-30	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
I54A:		 	 	 		 	 	 		 	 	 	 
Roliss, depressional	80	0-14	15-27	1.10-1.40	0.20-2.00	0.20-0.25	3.0-5.9	3.0-15	.24	.24	5	6	48
		14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	1.0-3.0	.37	.37			
		20-80 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Roliss	12	   0-14	18-27	  1.10-1.50	0.20-2.00	0.17-0.24	3.0-5.9	3.0-8.0	.24	.24	   5	   4L	   86
		14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37			
		20-80	18-30	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Hamre	5	   0-13	0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	.02	   5	2	134
		13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32			
		18-71		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37			
		71-80 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	 
Kratka	3	0-11	5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	1.17	.17			
		18-25		1.30-1.60		0.06-0.12		0.1-0.5	1.17	.17			
		25-80 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19 	1.0-4.2	0.0-0.5 	.37 	.37 	 	 	 
I55A:		i	İ	i		į	į	į	į	İ	į		į
Rosewood	75	0-8			2.00-6.00			3.0-8.0	.24	.24	3	3	86
		8-18		1.30-1.50				0.5-2.0	.24	.24	ļ	ļ.	ļ
		18-80 	2-8 	1.45-1.65  	6.00-20	0.05-0.08 	0.0-2.9 	0.0-0.5 	.15 	.15 	 	 	 
Ulen	10	0-9			2.00-6.00			2.0-5.0	.20	.20	3	3	86
		9-42		1.30-1.60				!	.24	.24	ļ	!	
		42-60	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15			

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	tors		Wind  erodi-
component name	map unit	 	i I	bulk density	bility	water  capacity	extensi-	matter	   Kw	   Kf	   T	bility  group	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct		İ	ļ	İ	İ
I55A:	] 	l İ	 	 			 	 	 	 		 	
Hamar	6	0-12	2-10	1.20-1.40	2.00-20	0.10-0.13	0.0-2.9	3.0-8.0	.17	.17	5	2	134
		12-17	2-10	1.35-1.55	2.00-20	0.06-0.12	0.0-2.9	0.5-2.0	.17	.17			
		17-40	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	1.17	.17			
		40-47		1.30-1.50		0.10-0.13	0.0-2.9	1.0-4.0	.17	1.17			
	 	47-60	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	1.17	1.17			
Rosewood, depressional	3	   0-8	   5-18	  1.00-1.35	2.00-6.00	0.20-0.30	0.0-2.9	3.0-15	.20	.20	3	3	86
		8-18	6-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		18-80	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15			
Syrene	   3	   0-9	   8-18	  1.10-1.40	0.60-2.00	0.13-0.15	0.0-2.9	3.0-8.0	.20	.20	3	3	86
		9-17	10-25	1.30-1.50	2.00-6.00	0.12-0.19	0.0-2.9	0.5-2.0	.32	.32	ĺ	ĺ	İ
		17-27	1-5	1.50-1.70	6.00-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.10			
		27-60	1-5	1.50-1.70	6.00-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.10			
Karlsruhe	   1	   0-15	   5-15	  1.10-1.40	2.00-6.00	0.10-0.15	0.0-2.9	2.0-6.0	.20	.20	   5	3	86
		15-30	2-12	1.20-1.60	2.00-20	0.09-0.14	0.0-2.9	0.5-2.0	.20	.20			
		30-60	0-5	1.30-1.60	6.00-40	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15			
Strathcona	   1	   0-10	   5-18	  1.20-1.50	2.00-20	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	   3	   86
		10-17	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24	İ	İ	İ
		17-28	2-8	1.35-1.60	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15	ĺ	ĺ	İ
		28-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Thiefriver	   1	   0-12	   8-18	  1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	3	86
		12-23	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24	İ	İ	İ
		23-32	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.17	.17			
		32-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
I57B:	 	 	i İ	 			 	 				i	
Sandberg	50	0-12	2-10	1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	1.0-3.0	.17	.17	5	2	134
		12-19	1-5	1.50-1.70	6.00-20	0.03-0.10	0.0-2.9	0.5-1.0	.05	1.10			
		19-29	1-5	1.50-1.70	20-40	0.02-0.06	0.0-2.9	0.5-1.0	.05	.10			
	l i	29-80	1-5	1.50-1.70	20-40	0.02-0.04	0.0-2.9	0.0-0.5	.05	.10			
Radium	   25	   0-14	2-8	  1.20-1.40	6.00-20	0.06-0.12	0.0-2.9	1.0-3.0	.17	1 .17	5	2	134
		14-33	1-8	1.40-1.65	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	.10	.10			
		33-43	1-5	1.55-1.75	20-40	0.02-0.05	0.0-2.9	0.0-0.5	.10	.17			
		43-80	1-5	1.55-1.75	6.00-20	0.03-0.09	0.0-2.9	0.0-0.5	.10	.17			
Sioux	   8	   0-5	   10-18	  1.25-1.40	2.00-6.00	0.11-0.15	0.0-2.9	1.0-3.0	.20	.20	   5	3	86
		5-8	1-10	1.20-1.50	2.00-6.00	0.10-0.15	0.0-2.9	0.5-2.0	.15	.20	İ	İ	İ
		8-60	1-10	1.60-1.70	6.00-60	0.03-0.06	0.0-2.9	0.0-0.5	.10	.15	ļ		
	l	l	I	ı		1			1	1	1	1	

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	tors	Wind  erodi-	
component name	map unit		Clay	bulk	bility	water	extensi-	matter	!	ı		bility	
component name	map unic  		I I	density	DITICY	capacity	bility	Maccel	l Kw	   K£	   T	group	
		In	Pct	g/cc	In/hr	In/in	Pct	Pct			<u>  -</u>		
I57B:	 	 	 	 		 	 	 	 	 	 	 	 
Oylen	7	0-10	5-12	1.50-1.70	2.00-6.00	0.12-0.16	0.0-2.9	2.0-4.0	.20	.20	3	3	86
- i	i	10-18	7-18	1.60-1.70	0.60-2.00	0.12-0.18	0.0-2.9	0.5-2.0	.24	.24	i	i	i
i	i	18-38	2-5	1.45-1.60	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	1.10	.10	i	i	i
		38-80	0-5	1.45-1.60	6.00-20	0.03-0.07		0.0-0.5	.05	.10	į	į	į
Flaming	5	   0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0	.17	   .17	   5	2	   134
	İ	12-17	2-10	1.30-1.50	6.00-20	0.06-0.12	0.0-2.9	0.5-3.0	.17	.17	İ	İ	İ
	İ	17-27	2-8	1.30-1.50	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.17	.17	İ	İ	İ
		27-60	1-8	1.50-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17	į	į	į
Garborg	5	   0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.13	0.0-2.9	2.0-6.0	.17	   .17	   5	2	   134
Ī	į i	12-41	2-10	1.35-1.55	2.00-20	0.06-0.12	0.0-2.9	0.5-2.0	.17	.17	i	i	i
	İ	41-59	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17	İ	İ	İ
		59-80	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17	į	į	į
I58A:			 	 		 	 	 		 	 	 	 
Seelyeville	90	0-10	0-0	0.10-0.25	0.20-6.00	0.35-0.48	i	75-99	.02	.02	3	2	134
		10-80	0-0	0.10-0.25	0.20-6.00	0.35-0.48	į	75-99	.02	.02	į	į	į
Cathro	   3	   0-11	   0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	   75-95	1 .02	   .02	   2	   2	   134
i	i	11-23	0-0	0.10-0.35	0.20-6.00	0.35-0.48	i	85-95	.02	.02	i	i	i
		23-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-1.0	.37	.37	į	į	į
Dora	   3	   0-12	   0-0	  0.10-0.25	0.60-6.00	0.48-0.58	 	   85-95	1.02	   .02	   2	   2	   134
		12-32	0-0	0.15-0.35	0.20-6.00	0.35-0.48	i	85-95	.02	.02	i	i	i
i		32-36	25-40	1.15-1.35	0.20-2.00	0.18-0.24	3.0-5.9	3.0-15	.28	.28	i	i	i
		36-60	'	1.40-1.65		0.10-0.20		0.0-0.5	.32	.32	į	į	į
Markey	3	   0-32	   0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	   75-95	.02	   .02	2	2	   134
		32-60	2-8	1.40-1.65	6.00-20	0.03-0.10	0.0-2.9	0.0-0.5	.15	.15	į	į	į
Berner	   1	   0-28	   0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	   75-95	1 .02	   .02	   2	   2	   134
i	i	28-31	5-15	1.25-1.45	2.00-6.00	0.10-0.18	0.0-2.9	2.0-10	.17	.24	i	i	i
i	i	31-44	0-5	1.45-1.65	6.00-20	0.05-0.10	•	0.1-0.5	.05	.15	i	i	i
		44-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
I59A:		 	 	 		 	 	 		 		 	 
Smiley	65	0-12	18-27	1.20-1.50	0.60-2.00	0.20-0.24	0.0-2.9	3.0-8.0	.24	.24	5	5	56
i	l i	12-19	18-35	1.35-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.5-2.0	.24	.24			
i		19-42	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	İ	İ	İ
i		42-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	İ	İ
	l i			l İ									

Man numbel and	Pct. of	Dombh	   al	l Madat I	D	  Available	   Times	   0	Erosi	on rac	COLS	erodi-	Wind
Map symbol and component name		Depth	Clay	Moist   bulk	Permea- bility	water	extensi-	Organic   matter	!	1			
component name	map unit		 		DILLEY			matter	1 77	   v=	 	bility	
		l In	l Pct	density g/cc	In/hr	capacity In/in	bility   Pct	l Pct	Kw	K£	<u>T</u>	group	Index
l I		l III	PCC	g/cc   	In/nr	In/in	PCC 	PCT 		 		l I	 
I59A:			i			İ	İ	İ	i	i	i	i	i
Smiley, very cobbly	10	0-12	18-27	1.20-1.50		0.20-0.24		3.0-8.0	.20	.24	5	5	56
	ļ	12-19		1.35-1.65		0.15-0.19		0.5-2.0	.24	.24			
ļ		19-42		1.35-1.55		0.15-0.19		0.2-1.0	.37	.37	ļ	ļ	ļ
l		42-80	18-30  	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	!		 
   Kratka	9	   0-11	l   5-18	  1.20-1.50	2.00-6.00	0.16-0.18	   0.0-2.9	l   3.0-8.0	1 .20	.20	l I 5	l   3	l   86
		11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17	i	i	i
į	i	18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17	i	İ	İ
į	į	25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	į	į
Roliss	5 İ	   0-14	10 27	  1.10-1.50	0.20-2.00	  0.17-0.24		   3.0-8.0	1.24	   .24	   5	   4L	   86
ROIISS	5	14-20		1.10-1.50   1.35-1.55		0.17-0.24		0.5-2.0	37	37	1 2	1 47	00 
l I		20-80		1.35-1.55   1.35-1.55		0.15-0.19		0.0-0.5	37	37	ľ		¦
i		20 00	20 00		2,00						i	i	i
Reiner	4	0-7	5-15	1.10-1.35	2.00-6.00	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	5	3	86
İ	Ì	7-17	25-35	1.40-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.2-2.0	.32	.32	ĺ	İ	ĺ
I		17-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
		35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		ļ	
Linveldt	3	   0-9	   5-15	  1.15-1.45	2.00-6.00	0.14-0.18	   0.0-2.9	   2.0-5.0	1 .20	   .20	   5	   3	l I 86
		9-16		1.25-1.50				0.2-2.0	.28	.28	i	i	i
İ	i	16-29	1-8	1.45-1.65	6.00-20	0.05-0.11	0.0-2.9	0.1-0.5	.15	.17	i	i	i
į	i	29-45	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	İ	İ	İ
į	į	45-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ĺ	İ	İ
  Smiley, depressional	3	   0-12	   15-27	  1 10=1 40	0.20-2.00	0.20-0.30	   3 0_5 9	   3.0-15	1 .24	   .24	   5	   5	   56
contrast	5	12-19		1.35-1.65	0.60-2.00	0.15-0.19		1.0-3.0	.24	.24	1		1 30
		19-42		1.35-1.55		0.15-0.19		0.2-1.0	37	.37	i	i	i
į	i	42-80		1.35-1.55				0.0-0.5	.37	.37	İ	i	İ
	_										ļ _		
Strandquist	1	0-10   10-20		1.10-1.40		1		3.0-8.0	.24	.24	5	4L	86
l		10-20   20-60		1.50-1.70   1.35-1.55		0.02-0.07		0.5-2.0	1.10	.15   .37			
l I		20-60	10-30  	1.35 <b>-</b> 1.55	0.60-2.00		1.0-4.2	0.0-0.5	.3/	.3/		i i	 
I60A:			į i	i		İ	į	İ	i	i	i	i	i
Smiley, depressional	80	0-12	15-27	1.10-1.40	0.20-2.00	0.20-0.30	3.0-5.9	3.0-15	.24	.24	5	5	56
I		12-19	18-35	1.35-1.65	0.60-2.00	0.15-0.19	3.0-5.9	1.0-3.0	.24	.24			
I		19-42	18-30	1.35-1.55		0.15-0.19		0.2-1.0	.37	.37			
	ļ	42-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
   Smiley	10	   0-12	   18-27	  1.20-1.50	0.60-2.00	0.20-0.24	   0.0-2.9	   3.0-8.0	1 .24	   .24	   5	   5	l   56
-	i	12-19		1.35-1.65		0.15-0.19		0.5-2.0	.24	.24	i	i	i
i		19-42		1.35-1.55		0.15-0.19		0.2-1.0	.37	.37	İ	i	i
:		42-80	l 18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	i .37	i .37	I	1	I

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available		   Organic	Erosi	on fac		erodi-	
component name	map unit			bulk	bility	water	extensi-	matter	!			bility	
				density		capacity	bility	L	Kw	Kf	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
I60A:	 		 				! 	 		 	 	 	 
Hamre	5	0-13	0-0	0.10-0.40	0.20-6.00	0.35-0.48	i	50-95	.02	.02	5	2	134
	İ	13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32	İ	İ	İ
	İ	18-71	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	İ	İ
		71-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ļ	ļ	ĺ
Kratka	   5	0-11	   5-18	  1.20-1.50	2.00-6.00	  0.16-0.18	   0.0-2.9	   3.0-8.0	1 .20	l l .20	   5	   3	l I 86
	i	11-18		1.30-1.60		0.06-0.11		0.5-2.0	.17	.17	i	i	i
i	i i	18-25		1.30-1.60		0.06-0.12	0.0-2.9	0.1-0.5	.17	.17	i	i	i
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
I61A:							 	 	 	 	 		 
Strandquist	l 70 I	0-10	I I 10-18		2.00-6.00	10 20-0 22	   0 0-2 9	3.0-8.0	.24	.24	l   5	   4L	ı İ 86
ber anaquise	, , , , , , , , , , , , , , , , , , ,	10-20		1.50-1.70		10.02-0.07		0.5-2.0	1.10	1 .15	1	10	1 00
	i i	20-60		1.35-1.55	0.60-2.00	1		0.0-0.5	.37	.37		i	
Mavie	8	0-12			2.00-6.00	1		3.0-8.0	.20	.20	3	3	86
	! !	12-18		1.35-1.55				0.5-2.0	.28	.28	ļ	!	!
	! !	18-39		1.40-1.65		0.03-0.06		0.0-0.5	.10	.15	ļ	!	!
	 	39-80	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2 	0.0-0.5	37	.37 	l I	 	 
Roliss	7	0-14	18-27	  1.10-1.50	0.20-2.00	0.17-0.24	3.0-5.9	3.0-8.0	.24	.24	5	4L	86
		14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37			
		20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		ļ	
Kratka	   5	0-11	   5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	   .20	   5	   3	   86
	j j	11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17	İ	İ	İ
	j j	18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17	İ	İ	İ
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Foxhome	   4	0-10	   5-15	  1.15-1.45	2.00-6.00	0.13-0.15	   0.0-2.9	   2.0-5.0	1 .20	l l .20	   5	   3	l I 86
	i - i	10-15		11.40-1.60		0.07-0.12		0.2-1.0	.15	.20	i	i	i
	i i	15-23		1.50-1.70		0.02-0.07		0.1-0.5	.05	1.15	i	i	i
	İ	23-80		1.35-1.55				0.0-0.5	.37	.37	İ	i	İ
Hangaard	   3	   0-10	   8-10	  1.10-1.40	2.00-6.00	0.10-0.15	1 0.0-2 9	3.0-8.0	   .20	   .20	   5	   3	   86
	, J	10-15		1.10-1.40   1.10-1.45		0.10-0.13		1.0-3.0	1.17	1 .17	, ,		, 30 I
		15-80		1.50-1.70		0.02-0.04		0.0-0.5	1 .10	1 .15			
Wanthing d					0.20-6.00					   .02		   2	
Northwood	3	0-9 9-14		0.10-0.40   1.25-1.45		0.35-0.48	1	50-95 2.0-10	.02	.02   .15	4	4	134
		9-14		1.45-1.45   1.45-1.70		0.10-0.18	•	0.1-0.5	1 .15	.15   .15	l I	 	 
	 	24-80		1.45-1.70   1.35-1.55		1		0.1-0.5	.15	37	I I	 	! !
	ı	27-00	1 70-20	1 2 2 2 2	0.00-2.00	10.13-0.13	1 1.0-4.2	1 0.0-0.5	1 .3/	1 .3/	I	I	I

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fact	tors	Wind  erodi-	Wind  erodi
component name	map unit	ĺ	İ	bulk	bility	water	extensi-	matter	İ			bility	bility
		L		density		capacity	bility	L	Kw	Kf	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	[			I	
I62A:	 	 	 					 		 			l I
Syrene	l 70	l l 0-9	   8_18	  1.10-1.40	0.60-2.00	0.13-0.15	1 0 0-2 9	3.0-8.0	1 .20	l   .20	l   3	l   3	l I 86
byrene	, , , , , , , , , , , , , , , , , , ,	0-3   9-17		11.30-1.50		0.13-0.13		0.5-2.0	1.32	1.32		1	1
		17-27		11.50-1.70		10.02-0.04		0.0-0.5	1 .05	1.10	ŀ	¦	l
	<u> </u>	27-60		11.50-1.70		0.02-0.04		0.0-0.5	.05	1.10	i	İ	
_ ,													
Rosewood	11	0-8		1.00-1.35		0.16-0.18		3.0-8.0	.24	.24	3	3	86
		8-18   18-80		1.30-1.50		0.09-0.17		0.5-2.0	1.24	.24	!		!
	 	   18-80	2-8 	1.45-1.65  	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15 	 	 	 
Hangaard	5	0-10	8-18	1.10-1.40	2.00-6.00	0.10-0.15	0.0-2.9	3.0-8.0	.20	.20	5	,   3	86
_	j i	10-15	5-15	1.10-1.45	6.00-20	0.07-0.11	0.0-2.9	1.0-3.0	.17	.17	i	i	i
		15-80	1-5	1.50-1.70	6.00-40	0.02-0.04	0.0-2.9	0.0-0.5	.10	.15	į	į	į
Karlsruhe	   4	   0-15	   5-15	  1.10-1.40	2.00-6.00	  0.10-0.15	   0.0-2.9	2.0-6.0	1.20	   .20	   5	   3	   86
101 101 010	· -	15-30		1.20-1.60		0.09-0.14		0.5-2.0	.20	.20	i	"	
		30-60		1.30-1.60		0.02-0.07		0.0-0.5	.10	.15	i	i	İ
Deerwood	   3	   0-10			0.20-6.00	10.35-0.48	 	   50-95		   .02	   3	   2	   134
Deel wood	] 3 	0-10   10-12		11.25-1.45		0.09-0.17		2.0-10	1.17	1.02	3	<del>4</del> 	1 134
	 	10-12		1.23-1.43   1.50-1.70		0.03-0.17	•	0.0-0.5	1 .15	•±7   •17	ŀ	l I	 
	İ	İ	į	j i		i	į	į	i	İ	i	į	į
Hamar	3	0-12		1.20-1.40		0.10-0.13		3.0-8.0	1.17	.17	5	2	134
		12-17		1.35-1.55		0.06-0.12		0.5-2.0	1.17	.17			
		17-40		1.45-1.65		0.06-0.10		0.0-0.5	.17	.17			
		40-47		1.30-1.50		0.10-0.13		1.0-4.0	.17	.17	ļ	!	ļ
	l I	47-60 	1-8 	1.45-1.65  	2.00-20	0.06-0.10	0.0-2.9 	0.0-0.5	.17	.17 	 	l I	l I
Strandquist	2	0-10	10-18	  1.10-1.40	2.00-6.00	0.20-0.22	0.0-2.9	3.0-8.0	.24	.24	5	   4L	86
		10-20	1-8	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.5-2.0	.10	.15			
		20-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		ļ	
Radium	   1	   0-14	   2-8	  1.20-1.40	6.00-20	0.06-0.12	0.0-2.9	1.0-3.0	.17	   .17	   5	   2	134
	į	14-33	1-8	1.40-1.65	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	.10	.10	i	i	i
	j i	33-43	1-5	1.55-1.75	20-40	0.02-0.05	0.0-2.9	0.0-0.5	.10	.17	i	i	i
	İ	43-80	1-5	1.55-1.75	6.00-20	0.03-0.09	0.0-2.9	0.0-0.5	.10	.17	į	į	į
Wyandotte	   1	   0-8	   27-30	  1.20-1.45	0.60-2.00	0.14-0.19	   0.0-2.9	   3.0-8.0	1.32	   .32	   5	   4L	   86
	<u> </u>	0-0   8-15		11.25-1.50		0.14-0.18		0.2-2.0	1 .32	1.32	i	i	
	i	15-34		11.40-1.70		0.02-0.07		0.1-0.5	1.10	1 .15	i	i	i
	i	34-60		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	i	i	i
	i		i		<del></del>	i	i	i	i	i	i	i	i

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available		   Organic	Erosi	on fac	tors	erodi-	Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter	!		! _		bility
	l	l In	l   Pct	density g/cc	In/hr	capacity In/in	bility   Pct	l Pct	Kw	K£	<u>  T</u>	group	index
	 	l 111	PCC 	9766   	111/111	111/111	PCL	l PCC		 	¦		
163A:	i	i	i			i	İ	İ	i	i	i	i	i
Thiefriver	70	0-12	8-18	1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		12-23	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		23-32		1.45-1.70		0.06-0.11		0.1-0.5	.17	1.17			
		32-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	ļ		ļ
Espelie	l l 10	l l 0-9	   5-18	  1.20=1.45	2.00-6.00	  0.13=0.18	   0.0-2.9	   3.0-8.0	1 .20	   .20	   5	   3	l l 86
Esperie	I 10	9-24	•	1.35-1.60		0.06-0.11	•	0.5-1.0	1.17	1.17			00
	i	24-80	•	1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	i	i	i
	İ	İ	i	İ		İ	į	İ	i	i	i	i	i
Foxlake	7	0-19	18-27	1.15-1.35	0.60-6.00	0.20-0.22	0.0-2.9	3.0-8.0	.24	.24	5	4L	86
		19-38	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.5-2.0	.28	.28			
		38-49		1.25-1.45		0.09-0.19		0.1-0.5	.28	.28			
	!	49-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	ļ	ļ	ļ.
Huot	l l 5	   0-14	   <sub>5-15</sub>	  1 15_1 45	2.00-6.00	0.13-0.18	   n n_2 a	   2.0-5.0	1 .20	   .20	   5	   3	l l 86
huoc	]	14-26	•	1.30-1.60		0.09-0.17	•	0.2-1.0	1 .20	.20	1 2	1 3	1 00
	i	26-34	•	1.55-1.70		0.06-0.11	•	0.1-0.5	.20	.20	i	i	ŀ
	i	34-80	•	1.25-1.55		0.09-0.19	•	0.0-0.5	.28	.28	i	i	i
	İ	İ	i	İ		İ	į	İ	i	i	i	i	i
Clearwater,	ĺ	ĺ	ĺ	İ		j	ĺ	ĺ	İ	ĺ	İ	ĺ	İ
depressional	3	0-8	27-35	1.20-1.45	0.20-2.00	0.17-0.30	3.0-5.9	3.0-15	.24	.24	5	6	48
		8-35		1.20-1.50		0.10-0.19	•	1.0-3.0	.32	.32			
		35-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	!	!	ļ
Rosewood	l   3	l   0-8	   5-18	  1.00=1.35	2.00-6.00	0.16-0.18	   0.0-2.9	   3.0-8.0	1 .24	   .24	   3	   3	l   86
Robewood	l J	0 0   8-18	•	1.30-1.50		0.09-0.17		0.5-2.0	.24	.24			00
	i	18-80	•	1.45-1.65		0.05-0.08		0.0-0.5	.15	.15	i	i	i
	j	j	į	j i		İ	į	į	İ	į	i	İ	į
Ulen	1	0-9	8-18	1.15-1.45	2.00-6.00	0.13-0.18	0.0-2.9	2.0-5.0	.20	.20	3	3	86
		9-42	•	1.30-1.60		•	•	0.2-1.0	.24	.24			
		42-60	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15	ļ		ļ
Wyandotte	   1	l l 0-8	   27-30	  1 20_1 45	0.60-2.00	  0.14-0.19	   0.0-2.9	   3.0-8.0	1 .32	l l .32	l l 5	   41.	l l 86
Wyandocce	<del>-</del>	0-0   8-15				0.14-0.18		0.2-2.0	1 .32	1 .32		411	1
	i	15-34	•	1.40-1.70		0.02-0.07	•	0.1-0.5	1.10	1.15	i	i	i
	i	34-60	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	i	i	i
	j	İ	į	j i		İ	İ	İ	į	İ	İ	İ	į
164A:													
Ulen	70	0-9		1.15-1.45		0.13-0.18	•	2.0-5.0	.20	.20	3	3	86
	l	9-42		1.30-1.60		0.09-0.17		0.2-1.0	.24	.24	ļ		
	  -	42-60	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	1.15	1.15			
Rosewood	l l 10	l l 0-8	I   5-18	  1.00-1.35	2.00-6.00	0.16-0.18	   0.0-2.9	l   3.0-8.0	1 .24	l   .24	   3	   3	l l 86
		0-0   8-18	•	1.30-1.50		0.09-0.17	•	0.5-2.0	.24	.24	i	i	
	İ	18-80	•	1.45-1.65		0.05-0.08		0.0-0.5	.15	.15	i	i	i
	İ	İ	į	j		İ	İ	İ	İ	į	İ	į	į
	1	ı	1	1	ı	1	ı	1	1	1	1	ı	1

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	   Clay	Moist	Permea-	  Available		   Organic	Frosi	on fac		erodi-	
component name	map unit			bulk	bility	water	extensi-	matter				bility	
				density		capacity	bility		Kw	Kf	Т	group	index
I		In	Pct I	g/cc   	In/hr	In/in	Pct	Pct 				 	 
I64A:							İ	İ		İ			
Flaming	8	0-12	2-10	1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0	1.17	.17	5	2	134
l		12-17		1.30-1.50		0.06-0.12		0.5-3.0	.17	.17			
ļ		17-27		1.30-1.50		0.05-0.12		0.2-1.0	.17	.17			
 		27-60	1-8 	1.50-1.70  	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17	 		 
Karlsruhe	5	0-15			2.00-6.00	0.10-0.15		2.0-6.0	.20	.20	5	3	86
I		15-30		1.20-1.60		0.09-0.14	0.0-2.9	0.5-2.0	.20	.20			
ļ		30-60	0-5	1.30-1.60  	6.00-40	0.02-0.07	0.0-2.9	0.0-0.5	1.10	1.15			
Radium	3	0-14	2-8	  1.20-1.40	6.00-20	0.06-0.12	0.0-2.9	1.0-3.0	1 .17	1 .17	5	2	134
I		14-33	1-8	1.40-1.65	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	.10	.10			
I		33-43	1-5	1.55-1.75	20-40	0.02-0.05	0.0-2.9	0.0-0.5	.10	.17			
ļ	ļ	43-80	1-5	1.55-1.75	6.00-20	0.03-0.09	0.0-2.9	0.0-0.5	.10	.17			
Strathcona	2	0-10	   5-18	  1.20-1.50	2.00-20	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	3	   86
I		10-17	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
I		17-28	2-8	1.35-1.60	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	1.15	.15			
	ļ	28-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Thiefriver	2	0-12	   8-18	  1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	   3	   86
I		12-23	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
I		23-32	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.17	.17			
	ļ	32-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
   I65A:			 			 	 	 		l I	 	 	 
Ulen	70	0-9	2-10	1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-5.0	.17	.17	5	2	134
I		9-42	5-15	1.30-1.60	2.00-6.00	0.09-0.17	0.0-2.9	0.2-1.0	.24	.24			
ļ		42-60	2-8	1.45-1.65  	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	1.15			
Rosewood	10	0-8	   5-18	  1.00-1.35	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.24	.24	3	3	   86
I		8-18	6-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
	ļ	18-80	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15		I	
  Flaming	6	0-12	   2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0	.17	1 .17	   5	   2	   134
İ	İ	12-17	2-10	1.30-1.50	6.00-20	0.06-0.12	0.0-2.9	0.5-3.0	.17	.17	ĺ	İ	İ
I		17-27	2-8	1.30-1.50	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.17	.17			
	ļ	27-60	1-8	1.50-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17			
Poppleton	4	0-6	2-10	  1.20-1.40	6.00-20	0.08-0.10	0.0-2.9	0.5-2.0	.15	.15	   5	   1	   250
j	j	6-9	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15			
j	j	9-40	1-8	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15			
	i	40-60	1 1 0	1.45-1.65	6 00 00	0.05-0.10	1 0 0 2 0	0.0-0.5	.15	.15	ı	I	I .

Table 24.--Physical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	   Depth	   Clay	   Moist     bulk	Permea- bility	  Available   water	   Linear  extensi-	   Organic   matter	Erosi	on fac	tors	erodi-	Wind  erodi-  bility
component name	map unit	l I	 	bulk   density	DILITY	water  capacity	extensi-   bility	matter	l Kw	   Kf	 	group	
	l	l In	Pct	g/cc	In/hr	In/in	Pct	Pct	Kw		-	 	
I65A:	 	 	 	 			 	 		 		 	
Karlsruhe	l l 3	l   0-15	   5-15	  1.10-1.40	2.00-6.00	0.10-0.15	0.0-2.9	2.0-6.0	.20	.20	   5	l I 3	l   86
		15-30	•	1.20-1.60		0.09-0.14	•	0.5-2.0	.20	.20	i	i	i
	į	30-60	0-5	1.30-1.60	6.00-40	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15	į	į	į
Radium	   3	   0-14	   2-8	  1.20-1.40	6.00-20	0.06-0.12	   0.0-2.9	   1.0-3.0	.17	   .17	   5	   2	   134
	į	14-33	1-8	1.40-1.65	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	.10	.10	İ	İ	İ
	ĺ	33-43	1-5	1.55-1.75	20-40	0.02-0.05	0.0-2.9	0.0-0.5	.10	.17	ĺ	İ	İ
		43-80	1-5	1.55-1.75	6.00-20	0.03-0.09	0.0-2.9	0.0-0.5	.10	.17			
Strathcona	   2	   0-10	   5-18	  1.20-1.50	2.00-20	0.13-0.18	   0.0-2.9	   3.0-8.0	.20	.20	   5	   3	   86
		10-17	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		17-28	2-8	1.35-1.60	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	.15			
		28-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Thiefriver	   2	   0-12	   8-18	  1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	   5	3	86
		12-23	•	1.30-1.50		0.09-0.17	•	0.5-2.0	.24	.24			
		23-32	•	1.45-1.70		0.06-0.11		0.1-0.5	.17	1.17			
	 	32-80 	35-60 	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9 	0.0-0.5 	1 .28	.28 	 	 	 
I66A:			į			İ	į	į	į	į	į	į	į
Vallers	75	0-12		1.10-1.35		0.20-0.22		3.0-8.0	.24	.24	5	4L	86
		12-21	•	1.35-1.55		0.15-0.19		0.5-2.0	.37	.37	!	ļ	!
	 	21-60 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2 	0.0-0.5 	<b>.</b> 37	.37 	 	 	 
Vallers, very cobbly	7	0-12	18-27	1.10-1.35	0.60-2.00	0.20-0.22	0.0-2.9	3.0-8.0	.20	.24	5	4L	86
		12-21	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37			
		21-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Hamerly	   6	   0-8	1 18-27	  1.00-1.30	0.60-2.00	0.20-0.22	3.0-5.9	2.0-5.0	.24	.24	   5	   4L	86
		8-25	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-2.0	.37	.37			
	 	25-60 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37 	 	 	 
Grimstad	3	   0-9			2.00-6.00			2.0-5.0	.20	.20	5	3	86
		9-22	•	1.30-1.60		0.09-0.17		0.2-1.0	.20	.20			
	!	22-28		1.45-1.60		0.05-0.14		0.1-0.5	.20	.20	ļ	!	!
	İ	28-60 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2 	0.0-0.5 	.37	.37 	 	 	 
Mavie	3	0-12	•			0.16-0.18		3.0-8.0	.20	.20	3	3	86
		12-18	•	1.35-1.55		0.12-0.19		0.5-2.0	.28	.28	ļ	ļ	ļ
		18-39		1.40-1.65		0.03-0.06		0.0-0.5	1.10	.15	!	ļ	
	 	39-80 	18-30 	1.35-1.55  	0.60-2.00	0.15-0.19 	1.0-4.2 	0.0-0.5 	<b>.</b> 37	.37 	 	 	 
Roliss, depressional	3	0-14	15-27	1.10-1.40	0.20-2.00	0.20-0.25	3.0-5.9	3.0-15	.24	.24	5	6	48
		14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	1.0-3.0	.37	.37			
		20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			

	_	_	! _	! !		!	! .	! .	Erosi	on fac	tors		Wind
Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	Available		Organic	!				erodi-
component name	map unit		!	bulk	bility	water	extensi-	matter	ļ	ļ	ļ	bility	
				density		capacity	bility	L	Kw	Kf	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct	!			ļ	!
I66A:			 	 		 	 	 		l I		l I	l I
Strathcona	3	0-10	5-18	  1.20-1.50	2.00-20	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
201401100114		10-17		11.30-1.50		0.09-0.17		0.5-2.0	.24	.24	i	•	
		17-28		1.35-1.60		0.05-0.12		0.1-0.5	1.15	1.15	i	i	i
		28-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	İ	i	i
I67A:													
Wheatville	70 I	l l 0-9	   15-22	  1.05-1.25	0.60-2.00	0.20-0.23	l   0.0-2.9	2.0-6.0	1 .28	1 .28	l I 5	   4L	l l 86
		9-31		11.30-1.50		0.17-0.22		0.2-2.0	.43	.43	i	i	
		31-80		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	İ	i	i
Augsburg	13	   0-11		  0.95-1.20	0.60-2.00	0.20-0.23		3.0-8.0			   5	   4L	   86
Augsburg	13	11-18		0.95-1.20   1.30-1.50		0.17-0.22		0.2-2.0	1 .28	.28 .28	>	41	00
						•			1 .28	.28	!	!	1
		18-33 33-60		1.40-1.60   1.25-1.55		0.17-0.22		0.1-0.5	1 .28		!	!	1
		33-60 	35-60	1.25-1.55  	0.06-0.20	0.09-0.19	6.0-8.9 	0.0-0.5	.28	.28 	 		
Glyndon	8	0-11	10-20	1.05-1.25	0.60-2.00	0.20-0.23	0.0-2.9	2.0-6.0	.28	.28	5	j 3	86
		11-28	10-18	1.30-1.50	0.60-6.00	0.17-0.22	0.0-2.9	0.2-2.0	.28	.28	i	i	i
	İ	28-60	5-18	1.35-1.65	0.60-6.00	0.08-0.22	0.0-2.9	0.0-0.5	.28	.28	į	į	į
Foxlake	5 1	   0-19	   18-27	  1.15-1.35	0.60-6.00	0.20-0.22	   0.0-2.9	   3.0-8.0	1.24	   .24	   5	   4L	   86
1 01114110		19-38		11.25-1.45	0.06-0.20	0.09-0.19		0.5-2.0	1 .28	.28	i		
		38-49		11.25-1.45		0.09-0.19		0.1-0.5	1 .28	.28	i	i	i
		49-80		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	İ	i	İ
Hilaire	2	   0-10	2.10	  1.20-1.40	6.00-20	  0.10-0.14		2.0-4.0		   .17	   5	   2	   134
niiaiie		10-34		1.20-1.40   1.35-1.60		0.10-0.14		0.5-1.0	1 .15	1 .15	7	4	1 134
		34-80		1.35-1.60   1.25-1.55		0.07-0.11		0.0-0.5	.28	.13	 		
Ulen	2	0-9	1	1.20-1.40		0.10-0.12		2.0-5.0	.17	.17	5	2	134
		9-42		1.30-1.60		0.09-0.17		0.2-1.0	.24	.24	!	!	!
		42-60	2-8 	1.45-1.65  	6.00-20	0.05-0.08	0.0-2.9 	0.0-0.5	.15 	.15 	l I		 
I69A:	i		i	i i		i	İ	į	i	i	İ	i	i
Wyandotte	65	0-8	27-30	1.20-1.45	0.60-2.00	0.14-0.19	0.0-2.9	3.0-8.0	.32	.32	5	4L	86
		8-15	18-25	1.25-1.50	0.60-2.00	0.14-0.18	0.0-2.9	0.2-2.0	.32	.32			
		15-34	1-5	1.40-1.70	6.00-20	0.02-0.07	0.0-2.9	0.1-0.5	.10	.15			
		34-60	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Foxlake	10	   0-19	   18-27	  1.15-1.35	0.60-6.00	0.20-0.22	   0.0-2.9	3.0-8.0	.24	.24	   5	   4L	86
i	i	19-38	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.5-2.0	.28	.28	İ	İ	İ
i	i	38-49	35-60	1.25-1.45	0.06-0.20	0.09-0.19	6.0-8.9	0.1-0.5	.28	.28	İ	İ	İ
	i	49-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	İ	i	i

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	   Clay	   Moist	Permea-	  Available		   Organic	Erosi	on fact	tors	erodi-	Wind  erodi-
component name	map unit		!	bulk	bility	water	extensi-	matter			! _	bility	
			L 5-1	density	T (1	capacity	bility	l 5	Kw	Kf	<u> </u>	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct		 	 		
I69A:			i i	! !		i i	i I	! 	i	l I	! 	i i	ŀ
Espelie	8	l 0-9	   5-18	1.20-1.45	2.00-6.00	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	5	3	86
		9-24	3-10	1.35-1.60	2.00-20	0.06-0.11	0.0-2.9	0.5-1.0	.17	.17	i	i	i
		24-80		1.25-1.55		0.09-0.19		0.0-0.5	.28	.28	į	į	į
Clearwater,		 	 	 		 	 	 		 	 	l I	l I
depressional	5	0-8	27-35	1.20-1.45	0.20-2.00	0.17-0.30	3.0-5.9	3.0-15	.24	.24	5	6	48
	i	8-35	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	1.0-3.0	.32	.32	i	i	i
		35-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	į
Thiefriver	   5	   0-12	   8-18	  1.20-1.45	2.00-6.00	  0.13-0.18	   0.0-2.9	   3.0-8.0	1 .20	   .20	   5	   3	   86
		12-23				0.09-0.17		0.5-2.0	.24	.24	i	i -	
i		23-32		1.45-1.70		0.06-0.11		0.1-0.5	.17	.17	i	i	i
		32-80	•			0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	į	į	į
Karlsruhe	4	   0-15	   5-15	  1.10=1.40	2.00-6.00	  0.10-0.15	0.0-2.9	   2.0-6.0	1.20	   .20	   5	   3	   86
102 202 020	-	15-30	•	11.20-1.60		0.09-0.14		0.5-2.0	.20	1 .20	-		
		30-60	1	1.30-1.60		0.02-0.07		0.0-0.5	1.10	.15	İ		İ
Syrene	3	   0-9	   8-18	  1.10=1.40	0.60-2.00	  0.13-0.15	0.0-2.9	   3.0-8.0		   .20	   3	   3	   86
5,10mc		0 J   9-17	•		2.00-6.00	•		0.5-2.0	32	1.32			1
		17-27	•	1.50-1.70		0.02-0.04		0.0-0.5	.05	1.10	i	i	i
		27-60	•	1.50-1.70		0.02-0.04		0.0-0.5	.05	.10		į	į
I70A:		 	 	 			 	 		 	 		l I
Strathcona	70	   0-10	   5-18	1.20-1.50	2.00-20	0.13-0.18	0.0-2.9	3.0-8.0	.20	.20	l I 5	3	l   86
		10-17				0.09-0.17		0.5-2.0	.24	.24	i	i -	
i		17-28	•	1.35-1.60		0.05-0.12		0.1-0.5	.15	.15	i	i	i
		28-80		1.35-1.55		0.15-0.19		0.0-0.5	.37	.37	į	į	į
Kratka	10	   0-11	   5-18	  1.20-1.50	2.00-6.00	  0.16-0.18	   0.0-2.9	   3.0-8.0	1 .20	   .20	   5	   3	   86
		11-18	•	1.30-1.60		0.06-0.11		0.5-2.0	.17	.17	i	i	i
i		18-25	•	1.30-1.60		0.06-0.12	0.0-2.9	0.1-0.5	.17	.17	i	i	i
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Roliss	6	   0-14	   18-27	  1.10-1.50	0.20-2.00	  0.17-0.24	   3.0-5.9	   3.0-8.0	.24	   .24	   5	   4L	   86
i	İ	14-20	•	1.35-1.55		0.15-0.19		0.5-2.0	.37	.37	İ	i	i
j		20-80		1.35-1.55		0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	į	į	į
Grimstad	5	   0-9	   10-18	  1.15-1.45	2.00-6.00	  0.14-0.18	   0.0-2.9	2.0-5.0	1 .20	   .20	   5	   3	   86
i		9-22	•	1.30-1.60		0.09-0.17		0.2-1.0	.20	.20	i	i	i
i		22-28	•	1.45-1.60		0.05-0.14		0.1-0.5	.20	.20	i	i	i
i	İ	28-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	İ	i	i
İ			i	į i		İ	İ	İ	i	İ	İ	i	İ

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter				bility	bility
			L	density		capacity	bility		Kw	Kf	Т	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct				 	
I70A:	 		 	 			! 	 		 	 	 	 
Mavie	3	0-12	10-18	1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	.20	3	3	86
		12-18	10-25	1.35-1.55	0.60-2.00	0.12-0.19	0.0-2.9	0.5-2.0	.28	.28			
		18-39	1-10	1.40-1.65	6.00-20	0.03-0.06	0.0-2.9	0.0-0.5	1.10	1.15			
	 	39-80 	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	 	  -	 
Rosewood	3	   0-8	   5-18	  1.00-1.35	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.24	.24	3	   3	   86
		8-18	6-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		18-80	2-8	1.45-1.65	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.15	.15		l	
Strathcona,	! 	<u> </u> 	l I	! !		 	! 	 		 	 	 	 
depressional	3	0-10	5-18	1.20-1.50	2.00-20	0.20-0.30	0.0-2.9	3.0-15	.20	.20	3	3	86
		10-17	10-18	1.30-1.50	2.00-6.00	0.09-0.17	0.0-2.9	0.5-2.0	.24	.24			
		17-28	2-8	1.35-1.60	6.00-20	0.05-0.12	0.0-2.9	0.1-0.5	.15	1.15			
		28-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		l	
I71A:	] 	<u> </u> 	 	! 		 	! 	 		 	 	 	 
Berner, ponded	45	0-28	0-0	0.10-0.35	0.20-6.00	0.35-0.48	i	75-95	.02	.02	2	8	0
		28-31	5-15	1.25-1.45	2.00-6.00	0.10-0.18	0.0-2.9	2.0-10	.17	.24			
		31-44	0-5	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.1-0.5	.05	.15			
	 	44-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		 	
Cathro, ponded	45	0-11	0-0	  0.10-0.35	0.20-6.00	0.35-0.48	 	75-95	.02	.02	2	   8	0
		11-23	0-0	0.10-0.35	0.20-6.00	0.35-0.48		85-95	.02	.02			
		23-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-1.0	.37	.37			
Hamre	   2	   0-13	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	.02	   5	   2	   134
		13-18	18-35	1.25-1.50	0.20-2.00	0.17-0.22	3.0-5.9	2.0-10	.32	.32			
		18-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		l	
Kratka	   2	   0-11	   5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	   .20	   5	   3	   86
	j i	11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17	İ	İ	İ
	İ	18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17	ĺ	ĺ	ĺ
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Northwood	   2	   0-9	   0-0	  0.10-0.40	0.20-6.00	0.35-0.48	 	   50-95	.02	.02	   4	   2	   134
		9-14	5-15	1.25-1.45	2.00-20	0.10-0.18	0.0-2.9	2.0-10	.15	.15	ĺ	ĺ	ĺ
		14-24	2-8	1.45-1.70	6.00-20	0.06-0.11	0.0-2.9	0.1-0.5	.15	1.15			
		24-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Roliss	   2	   0-14	   18-27	  1.10-1.50	0.20-2.00	0.17-0.24	   3.0-5.9	3.0-8.0	.24	   .24	   5	   4L	   86
		14-20	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.5-2.0	.37	.37	ĺ	ĺ	ĺ
	ļ	20-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37	ļ		ļ
Seelyeville, ponded	   2	   0-10	l   0-0	  0.10-0.25	0.20-6.00	0.35-0.48	 	   75-99		   .02	   3	   8	   0
, , , , , , , , , , , , , , , , , , , ,	. – 	10-80		0.10-0.25		1	1	75-99	.02	.02	i	i -	i
	j	į	İ			į	İ	į	į	İ	İ	İ	İ

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	Depth	Clay	Moist	Permea-	  Available	   Linear	   Organic	Erosi			•	Wind  erodi-
component name	map unit			bulk	bility	water	extensi-	matter				bility	bility
				density		capacity	bility	L	Kw	Kf	Т	group	index
	!	In	Pct	g/cc	In/hr	In/in	Pct	Pct		ļ			
   I72A:			 	 		 	! [	! 		 	 	 	 
Pelan	65	0-6	5-15	1.10-1.35	2.00-6.00	0.13-0.15	0.0-2.9	1.0-3.0	.20	.24	5	3	86
I	I	6-9	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.15	.15			
I	I	9-14	15-25	1.45-1.65	6.00-20	0.03-0.11	0.0-2.9	0.2-1.0	.20	.24			
	I	14-20	1-5	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.15			
	ļ	20-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Smiley	10	0-12	   18-27	  1.20-1.50	0.60-2.00	0.20-0.24	0.0-2.9	3.0-8.0	.24	.24	5	   5	   56
I	I	12-19	18-35	1.35-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.5-2.0	.24	.24			
	I	19-42	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
	ļ	42-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Linveldt	8	0-9	   5-15	  1.15-1.45	2.00-6.00	0.14-0.18	0.0-2.9	2.0-5.0	.20	   .20	   5	3	   86
	j	9-16	12-25	1.25-1.50	0.60-6.00	0.12-0.18	0.0-2.9	0.2-2.0	.28	.28		İ	ĺ
I	I	16-29	1-8	1.45-1.65	6.00-20	0.05-0.11	0.0-2.9	0.1-0.5	.15	.17			
	I	29-45	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
	ļ	45-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
   Kratka	5	0-11	   5-18	  1.20-1.50	2.00-6.00	0.16-0.18	0.0-2.9	3.0-8.0	.20	   .20	   5	3	   86
	I	11-18	2-10	1.30-1.60	6.00-20	0.06-0.11	0.0-2.9	0.5-2.0	.17	.17			
	j	18-25	2-8	1.30-1.60	6.00-20	0.06-0.12	0.0-2.9	0.1-0.5	.17	.17		İ	ĺ
		25-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Strandquist	5	0-10	   10-18	  1.10-1.40	2.00-6.00	0.20-0.22	0.0-2.9	3.0-8.0	.24	.24	   5	   4L	   86
I	I	10-20	1-8	1.50-1.70	6.00-20	0.02-0.07	0.0-2.9	0.5-2.0	.10	.15			
	ļ	20-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Reiner	4	0-7	   5-15	  1.10-1.35	2.00-6.00	0.16-0.18	0.0-2.9	2.0-5.0	.20	.24	   5	3	   86
I	I	7-17	25-35	1.40-1.65	0.60-2.00	0.15-0.19	3.0-5.9	0.2-2.0	.32	.32			
I	I	17-35	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37			
	ļ	35-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Eckvoll	3	0-9	2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	0.5-3.0	1 .17	   .17	   5	2	134
I	I	9-25	1-10	1.35-1.55	6.00-20	0.05-0.12	0.0-2.9	0.1-1.0	.15	.15			
I	I	25-32	18-35	1.40-1.70	0.20-2.00	0.16-0.18	3.0-5.9	0.1-1.0	.37	.37			
	ļ	32-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
I73A:	i	 	 	ı   			! 	! 		 			
Boash	75	0-9	27-40	1.20-1.45	0.06-0.20	0.17-0.19	6.0-8.9	3.0-8.0	.32	.32	5	4	86
İ	Ì	9-29	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	0.5-2.0	.32	.32			
j	į	29-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Clearwater	8	0-8	   40-60	  1.10-1.30	0.06-0.20	0.13-0.17	   6.0-8.9	   3.0-8.0	.28	   .28	   5	   4	   86
İ	Ì	8-35	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	0.5-2.0	.32	.32			
i	i	35-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28	1	1	1

Map symbol and	   Pct. of	Depth	   Clay	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac	tors	Wind  erodi-	Wind  erodi
component name	map unit			bulk	bility	water	extensi-	matter				bility	bilit
				density		capacity	bility		Kw	Kf	T	group	index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
173A:			 				 	 				! 	
Roliss	8	0-14		1.10-1.50		0.17-0.24		3.0-8.0	.24	.24	5	4L	86
		14-20		1.35-1.55	0.60-2.00	0.15-0.19		0.5-2.0	.37	.37			
		20-80	18-30  	1.35-1.55  	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37		 	 
Clearwater,			i i					İ		i		 	ļ
depressional	5	0-8	27-35	1.20-1.45	0.20-2.00	0.17-0.30	3.0-5.9	3.0-15	.24	.24	5	6	48
		8-35	35-60	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	1.0-3.0	.32	.32			
		35-80	35-60	1.25-1.55	0.06-0.20	0.09-0.19	6.0-8.9	0.0-0.5	.28	.28			
Kittson	2	0-10	   10-27	  1.00-1.30	0.60-2.00	0.20-0.22	0.0-2.9	2.0-5.0	.24	.24	   5	   5	   56
		10-17	15-25	1.35-1.55	0.60-2.00	0.12-0.19	0.0-2.9	0.2-2.0	.32	.32			
		17-36	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.1-1.0	.37	.37			
		36-60	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
Newfolden	   2	0-7	   10-27	  1.00-1.30	0.60-2.00	0.20-0.22	0.0-2.9	2.0-5.0	.24	.24	   5	   5	   56
	İ	7-16	35-55	1.20-1.50	0.06-0.20	0.10-0.19	6.0-8.9	0.2-2.0	.32	.32	ĺ	İ	ĺ
	İ	16-36	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.2-1.0	.37	.37	ĺ	İ	ĺ
		36-80	18-30	1.35-1.55	0.60-2.00	0.15-0.19	1.0-4.2	0.0-0.5	.37	.37			
174A:							 					! 	
Urban land	65										-		
Endoaquents	35		 				 	 			-		
I75A:	 		 			 	 	 		l I	 	 	 
Radium	40	0-14	2-8	1.20-1.40	6.00-20	0.06-0.12	0.0-2.9	1.0-3.0	.17	.17	5	2	134
	İ	14-33	1-8	1.40-1.65	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	.10	.10	ĺ	İ	ĺ
		33-43	1-5	1.55-1.75	20-40	0.02-0.05	0.0-2.9	0.0-0.5	.05	.17			
		43-80	1-5	1.55-1.75	6.00-20	0.03-0.09	0.0-2.9	0.0-0.5	.10	1.17			
Sandberg	20	0-12	2-10	  1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	1.0-3.0	1 .17	1 .17	   5	2	134
		12-19	1-5	1.50-1.70	6.00-20	0.03-0.10	0.0-2.9	0.5-1.0	.05	.10			
		19-29	1-5	1.50-1.70	20-40	0.02-0.06	0.0-2.9	0.5-1.0	.05	.10			
		29-80	1-5	1.50-1.70	20-40	0.02-0.04	0.0-2.9	0.0-0.5	.05	.10			
Garborg	15	0-12	2-10	  1.20-1.40	6.00-20	0.10-0.13	0.0-2.9	2.0-6.0	1 .17	1 .17	5	2	134
		12-41	2-10	1.35-1.55	2.00-20	0.06-0.12	0.0-2.9	0.5-2.0	.17	.17			
		41-59	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17			
		59-80	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17			
Oylen	   10	0-10	   5-12	  1.50-1.70	2.00-6.00	0.12-0.16	0.0-2.9	2.0-4.0	.20	.20	3	   3	   86
İ	l İ	10-18	7-18	1.60-1.70	0.60-2.00	0.12-0.18	0.0-2.9	0.5-2.0	.24	.24			
j	l İ	18-38	2-5	1.45-1.60	6.00-20	0.03-0.08	0.0-2.9	0.0-0.5	.10	.10			
		38-80		1.45-1.60	6.00-20	10.03-0.07	0.0-2.9	0.0-0.5	1.05	1.10	1	1	1

Table 24.--Physical Properties of the Soils--Continued

Table 24.--Physical Properties of the Soils--Continued

Map symbol and	Pct. of	   Depth	   Clay	   Moist	Permea-	  Available	   Timeam	   Organic	Erosi	on fac	tors		Wind  erodi
component name	map unit		Clay	bulk	bility	water	extensi-	matter	!	1		bility	
Component name	map unit	 		density	DITICY	capacity	bility	Matter	l Kw	   Kf	l I m	group	
	<u> </u>						<u></u>		KW	KE	_ <u>T</u>	group	Index
	 	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
175A:	 	i İ	i i	 		 	 	 	i	 	 	! 	
Flaming	5	0-12	2-10	1.20-1.40	6.00-20	0.10-0.12	0.0-2.9	2.0-4.0	.17	.17	5	2	134
_	İ	12-17	2-10	1.30-1.50	6.00-20	0.06-0.12	0.0-2.9	0.5-3.0	.17	.17	i	i	i
	İ	17-27	2-8	1.30-1.50	6.00-20	0.05-0.12	0.0-2.9	0.2-1.0	.17	.17	i	i	i
	İ	27-60	1-8	1.50-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17	į	i	i
- 1													
Karlsruhe	3	0-15			2.00-6.00				.20	.20	5	3	86
		15-30	1	1.20-1.60			0.0-2.9		.20	.20	!	ļ	!
	 	30-60 	0-5 	1.30-1.60	6.00-40	0.02-0.07	0.0-2.9	0.0-0.5	1.10	.15 	 	 	
Venlo	   3	0-13	5-10	  1.20-1.30	6.00-20	0.13-0.18	0.0-2.9	3.0-15	.20	.20	   5	3	86
	ĺ	13-60	1-8	1.45-1.65	2.00-20	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17	į	į	į
Hangaard	   2	   0-10	   010		2.00-6.00	10 10 0 15		   3.0-8.0	1.20	   .20	   5	   3	   86
Haligaard	4 	0-10   10-15		11.10-1.45			0.0-2.9		1 .17	1 .17	1 2	3 	1 00
	l i	10-13   15-80		11.50-1.45			0.0-2.9		1 .10	1 .15	 		!
	 	13-80	   1-5	1.50-1.70  	6.00-40	0.02-0.04	0.0-2.9	0.0-0.5	1 .10	.12	l I	l I	
Sioux	2	0-5	10-18	  1.25-1.40	2.00-6.00	0.11-0.15	0.0-2.9	1.0-3.0	.20	.20	5	3	86
		5-8	1-10	1.20-1.50	2.00-6.00	0.10-0.15	0.0-2.9	0.5-2.0	.15	.20			
	l	8-60	1-10	1.60-1.70	6.00-60	0.03-0.06	0.0-2.9	0.0-0.5	.10	.15	ļ	!	!
M-W.	 	 	 	 		 		 	 	 	 	 	1
Miscellaneous water	i	i	i	i i		i	i	i	i	i	i	i	i
	 	<u> </u>	i	' '					i	<u> </u>	i	i	i
W.	İ	į	i	i i		į	į	į	i	į	İ	i	i
Water		ļ.	ļ	ļ ļ		!		!	ļ	!	ļ	ļ.	!
		İ	<u>i</u>	<u>i i</u>		<u> </u>	<u>i</u>	<u>i</u>	<u>i</u>	<u> </u>	Ĺ_	<u>i</u>	<u>i                                    </u>

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Table 25.--Chemical Properties of the Soils
(Absence of an entry indicates that data were not estimated)

Map symbol and component name	Pct. of map unit	Depth	Cation-  exchange  capacity	reaction	Calcium   carbon-    ate	Gypsum     	Salinity
		In	  meq/100 g	рн	Pct	Pct	mmhos/cm
İ	į		į	İ	i i	į	
3109A:	45	0.30	00 100				0
Bowstring	45	0-38 38-47	:	5.6-8.4 5.6-8.4	: :	0   0	0
i		47-80	80-180	5.6-8.4	: :	0	0
Elwananta	40	0-16	   10-35	   6.6-7.8		0	0
Fluvaquents	40	16-80	:	6.6-7.8	: :	0	0
	_	0.6	10.20				0
Hapludalfs	5	0-6 6-8	10-20   5.0-15	6.1-7.8 6.1-7.8	: :	0   0	0
		8-25	15-30	6.6-7.8	: :	0 I	0
		25-80	5.0-25	7.4-8.4	: :	0 I	0
					220	,	Ü
Seelyeville	5	0-10	120-200	4.5-7.3	0	0	0
-	į	10-80	140-200	4.5-7.3		0	0
  Water	5			 	 		
	į		İ		į į	į	
3200A: Garnes	70 l	0-6	   5.0-25	   6.1-7.3	   0	0 1	0
		6-9	!	6.1-7.3	: :	o i	0
i		9-14	10-25	6.6-7.8	: :	0	0
i	i	14-72	10-25	7.4-8.4	15-25	o i	0
į	į	72-80	10-20	7.4-8.4	10-20	0	0
Chilgren	13	0-4	   5.0-20	   6.1-7.3	   0	0	0
i	i	4-10	1.0-10	6.1-7.3	i o i	0 j	0
İ	i	10-18	10-25	6.1-7.8	j o j	o j	0
İ	Ì	18-72	10-25	7.4-8.4	15-25	0	0
	ļ	72-80	10-20	7.4-8.4	10-20	0	0
Eckvoll	5	0-9	3.0-15	   6.1-7.3		0	0
I		9-25	1.0-10	6.1-7.3	0	0	0
I		25-32	10-30	6.6-7.8	0	0	0
		32-80	10-20	7.4-8.4	10-20	0	0
Garnes, very stony	5	0-6	5.0-25	   6.1-7.3	   0	0	0
		6-9	1.0-10	6.1-7.3	0	0	0
I		9-14	10-25	6.6-7.8	0	0	0
	ļ	14-72	10-25	7.4-8.4	: :	0	0
		72-80	10-20	7.4-8.4	10-20   	0	0
Grygla	4	0-6	5.0-15	6.1-7.3	0	0	0
			•	6.6-7.8		0	0
ļ		26-80	10-20	7.4-8.4	10-20	0	0
   Pelan	3	0-6	5.0-25	6.1-7.3	   0	0	0
				6.1-7.3		0	0
		9-14	•	6.1-7.8		0	0
	I		•	7.4-8.4		0	0
		20-60	10-20	7.4-8.4	10-20   	0	0
3201A:					; ;	i	
Chilgren	75	0-4	•	6.1-7.3		0	0
			•	6.1-7.3		0	0
		10-18	•	6.1-7.8		0	0
		18-72	•	7.4-8.4		0	0
		72-80	10-20	7.4-8.4	10-20	0	0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of     map unit  	_	Cation- exchange capacity	:	Calcium   carbon-    ate	Gypsum	Salinity
	 	In	meq/100 g	рн	Pct	Pct	mmhos/cm
į	İ		İ		į į		
201A:	   9	0.6				0	
Garnes	9	0-6 6-9	5.0-25   1.0-10	6.1-7.3 6.1-7.3	0     0	0	0   0
		9-14	10-25	6.6-7.8	: :	0	l 0
		14-72	!	7.4-8.4	: :	0	l 0
		72-80	10-20	7.4-8.4		0	0
			!	l			l
Grygla	5	0-6	!	6.1-7.3	: :	0	0
		6-26	1.0-10	6.6-7.8	: :	0	0
	 	26-80	10-20 	7.4-8.4 	10-20	0	0 
Grygla, depressional	5	0-6	15-40	6.1-7.3	0	0	0
I		6-26	1.0-10	6.6-7.8	0	0	0
		26-80	10-20	7.4-8.4	10-20	0	0
  Hamre	   5	0-13	   120-180	   5.1-7.8	   0-5	0	   0
	, , ,   , ,	13-18		5.1-7.8		0	l 0
	, '	18-35	10-20	6.6-8.4	: :	0	0
j	į į	35-80	10-20	7.4-8.4		0	0
_ ,							
Pelan		0-6 6-9	5.0-25   1.0-10	6.1-7.3	: :	0	0   0
		9-14	10-20	6.1-7.3   6.1-7.8	: :	0	l 0
		14-20	1.0-5.0	7.4-8.4	: :	0	l 0
	i i	20-60	10-20	7.4-8.4	: :	0	0
			!	l			l
202A:		0.11	100 100			•	
Cathro	80	11-23	120-180   120-180	4.5-7.8 4.5-7.8	0     0	0	0   0
	 	23-60	10-20	7.4-8.4	: :	0	0
j	i i		į	İ	i i		İ
Hamre	8	0-13	120-180	5.1-7.8	: :	0	0
		13-18	!	5.1-7.8	: :	0	0
		18-35	10-20	6.6-8.4	: :	0	0
		35-80	10-20	7.4-8.4	10-20	0	0 
Chilgren	3	0-4	5.0-20	6.1-7.3	0	0	0
İ	İ	4-10	1.0-10	6.1-7.3	0	0	0
I		10-18	10-25	6.1-7.8	0	0	0
		18-72	10-25	7.4-8.4	15-25	0	0
		72-80	10-20	7.4-8.4	10-20	0	0
  Northwood	   3	0-9	120-180	   5.1-7.8	1 0 1	0	l   0
i	i i		5.0-20			0	0
	İ	14-24	1.0-5.0	5.6-8.4	0-15	0	0
ļ	ļ	24-80	10-20	7.4-8.4	10-20	0	0
Berner	   2	0-28	   120-180	   5.6-7.2		0	   0
	ı <u>*</u>   		5.0-20	•		0	l 0
			1.0-5.0	•		-	l 0
	i i		10-20	•			0
Grygla	2		5.0-15	•		0	0
			1.0-10   10-20	•		0	0   0
		20-80	1 10-20	/.4-5.4 	10-20	U	, <sup>0</sup>
Seelyeville	2	0-10	120-200	4.5-7.3	0	0	0
	i	10 00	140-200	1 4 5 7 3	i o i	0	I 0

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Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of     map unit  	_	Cation- exchange capacity	Soil  reaction 	Calcium   carbon-    ate	Gypsum	Salinity
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
203A:	 		 				
Northwood	75	0-9	120-180	5.1-7.8	j o j	0	0
j	İ	9-14	5.0-20	5.6-7.8	0-5	0	0
		14-24	1.0-5.0	5.6-8.4	0-15	0	0
		24-80	10-20	7.4-8.4	10-20	0	0
Hamre	10	0-13	120-180	5.1-7.8	0-5	0	0
j	İ	13-18	15-35	5.1-7.8	0-10	0	0
		18-35	10-20	6.6-8.4	5-20	0	0
		35-80	10-20	7.4-8.4	10-20	0	0
Grygla	   7	0-6	   5.0-15	   6.1-7.3	   0	0	l I 0
	j i	6-26		6.6-7.8	i o i	0	0
		26-80	10-20	7.4-8.4	10-20	0	0
Berner	   5	0-28	   120-180	   5.6-7.3	   0	0 1	   0
		28-31		6.1-7.3	1 0 1	0 1	0
	j i	31-44	1.0-5.0	6.1-7.8	0-5	0	0
İ	į	44-80	10-20	7.4-8.4	10-20	0	0
Chilgren	   3	0-4	   5.0-20	   6.1-7.3	   0	0 1	   0
CIIIIGIEII	]	4-10		6.1-7.3	1 0 1	0	l 0
	i	10-18		6.1-7.8		0	0
	i	18-72	10-25	7.4-8.4	: :	0	0
		72-80	10-20	7.4-8.4	10-20	0	0
204A:				1			
Roliss	   75	0-14	20-40	   6.6-8.4	0-10	0	0
	j i	14-20	:	7.4-8.4	5-15	0	0
		20-80	10-20	7.4-8.4	10-20	0	0
Grygla	   8	0-6	   5.0-15	   6.1-7.3	   0	0 1	l l 0
13		6-26	1.0-10	6.6-7.8	0 1	0	0
	j i	26-80	10-20	7.4-8.4	10-20	0	0
Oh i I	   5	0.4					
Chilgren	] 5   	0-4 4-10	:	6.1-7.3 6.1-7.3	0     0	0	0   0
		10-18	:	6.1-7.8	! !	0	l 0
	i	18-72	10-25	7.4-8.4	: :	0	0
		72-80	10-20	7.4-8.4	10-20	0	0
Garnes	   5	0-6	   5.0-25	   6.1-7.3	   0	0 1	   0
Gaines	] ]			6.1-7.3	: :	0 1	0
	i	9-14		6.6-7.8		0	0
	j i	14-72		7.4-8.4		0	0
		72-80	10-20	7.4-8.4	10-20	0	0
Roliss, depressional	   5	0-14	   15-50	   6.6-8.4	   0-10	0 1	   0
, depressional		14-20		7.4-8.4			0
	İ	20-80		7.4-8.4			0
Tamma		0.13	1 120 100			0	
Hamre	2	13-18	120-180   15-35	5.1-7.8		0	0   0
	 	18-35		6.6-8.4			0   0
		35-80		7.4-8.4			0
	ļ		ļ		ļ	į	
205A: Berner	   80	0-28	   120-180	   5.6-7.3	   0	0 i	   0
	55		5.0-20			0 1	0
	i		1.0-5.0			0	0
ļ							

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	Depth	Cation-  exchange  capacity	•	Calcium   carbon-    ate	Gypsum	Salinity
		In	meq/100 g	рH	Pct	Pct	mmhos/cm
20053 -				 			
205A: Northwood	7	0-9	120-180	   5.1-7.8	I 0 I	0	l l 0
NOT CHWOOD	,	9-14	5.0-20	5.6-7.8	! !	0	l 0
			1.0-5.0	5.6-8.4	: :	0	l 0
i		24-80	10-20	7.4-8.4	: :	0	0
	_						
Grygla	5	0-6 6-26	!	6.1-7.3 6.6-7.8	: :	0	0   0
		26-80	1.0-10   10-20	7.4-8.4		0	l 0
		20 00			-0 -0	ŭ	
Cathro	3	0-11	120-180	4.5-7.8	0	0	0
		11-23	120-180	4.5-7.8	: :	0	0
		23-60	10-20	7.4-8.4	10-20	0	0
Hamre	3	0-13	120-180	   5.1-7.8	0-5	0	   0
j	i	13-18	15-35	5.1-7.8	0-10	0	0
j	İ	18-35	10-20	6.6-8.4	5-20	0	0
	İ	35-80	10-20	7.4-8.4	10-20	0	0
  Seelyeville	2	0-10	   120-200	   4.5-7.3	   0	0	   0
beeryeville		10-80	140-200	4.5-7.3	1 0 1	0	l 0
j	i		į	İ	i i		İ
206A:							
Hamre	80	0-13	!	5.1-7.8	: :	0	0
		13-18	!	5.1-7.8	: :	0	0
		18-35 35-80	:	6.6-8.4   7.4-8.4	: :	0	0   0
		33 00	10 20	,	10 20	Ü	
Chilgren	8	0-4	:	6.1-7.3	: :	0	0
			!	6.1-7.3	: :	0	0
		10-18	!	6.1-7.8	: :	0	0
		18-72	:	7.4-8.4	: :	0	0
		72-80	10-20 	7.4-8.4 	10-20   	0	0 
Northwood	5	0-9	120-180	5.1-7.8	i o i	0	0
I	I	9-14	5.0-20	5.6-7.8	0-5	0	0
	I	14-24	1.0-5.0	5.6-8.4	0-15	0	0
		24-80	10-20	7.4-8.4	10-20	0	0
   Cathro	3	0-11	120-180	   4.5-7.8	   0	0	l l 0
i		11-23	120-180	4.5-7.8	: :	0	0
İ	İ	23-60	10-20	7.4-8.4	10-20	0	0
Grygla	2	0.6	   5.0-15			0	   0
Grygia			•	6.6-7.8		0	l 0
				7.4-8.4		0	0
j	İ		į	İ	į į		İ
Roliss	2		•	6.6-8.4			0
			•	7.4-8.4			0
		20-80	10-20 	7.4-8.4 	±0-20   	0	0 
207A:			į	İ	i i		İ
Pelan	70		5.0-25	•		0	0
			1.0-10	•		0	0
			10-20	•		0	0
			1.0-5.0	•			0
		20-60	10-20	7.4-8.4	10-20	0	0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of     map unit  	_	Cation-  exchange  capacity 	Soil  reaction 	Calcium   carbon-    ate	Gypsum	Salinity     
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
207A:			 				 
Chilgren	10	0-4	5.0-20	6.1-7.3	0	0	l 0
	j i	4-10	1.0-10	6.1-7.3	: :	0	0
	j i	10-18	10-25	6.1-7.8	j 0 j	0	0
j	İ	18-72	10-25	7.4-8.4	15-25	0	0
		72-80	10-20	7.4-8.4	10-20	0	0
Garnes	   10	0-6	   5.0-25	   6.1-7.3	   0	0	l l 0
i	j i	6-9	1.0-10	6.1-7.3	: :	0	0
	j i	9-14	10-25	6.6-7.8	j 0 j	0	0
j	İ	14-72	10-25	7.4-8.4	15-25	0	0
		72-80	10-20	7.4-8.4	10-20	0	0
ckvoll	l 5	0-9	3.0-15	   6.1-7.3	   0	0	l I 0
-		9-25	1.0-10	6.1-7.3	: :	0	0
		25-32	10-30	6.6-7.8		0	0
	ļ	32-80	10-20	7.4-8.4	10-20	0	0
rygla	   5	0-6	   5.0-15	   6.1-7.3	   0	0	   0
		6-26	1.0-10	6.6-7.8		0	l 0
	i i	26-80	10-20	7.4-8.4		0	0
2002							
208A: Grygla	   75	0-6	   5.0-15	   6.1-7.3	   0	0	l I 0
		6-26	1.0-10	6.6-7.8	: :	0	i o
		26-80	10-20	7.4-8.4	10-20	0	0
Chilgren	   10	0-4	   5.0-20	   6.1-7.3	   0	0	   0
	<u> </u>	4-10	1.0-10	6.1-7.3	: :	0	l 0
i	i	10-18	10-25	6.1-7.8	: :	0	0
	j i	18-72	10-25	7.4-8.4	15-25	0	0
		72-80	10-20	7.4-8.4	10-20	0	0
Eckvoll	l 5	0-9	3.0-15	   6.1-7.3	   0	0	l I 0
		9-25	1.0-10	6.1-7.3	: :	0	i o
	j i	25-32	10-30	6.6-7.8	: :	0	j o
		32-80	10-20	7.4-8.4	10-20	0	0
Grygla, depressional	   5	0-6	   15-40	   6.1-7.3	   0	0	   0
zzysta, dopiosociani		6-26	1.0-10	6.6-7.8		0	l 0
	İ	26-80	10-20	7.4-8.4		0	0
Northwood	   5	0.0	1 100 100			0	   0
NOT CHWOOD	] 3		120-180   5.0-20	5.6-7.8		0	l 0
	i		1.0-5.0			0	l o
		24-80	•	7.4-8.4		0	0
09A:				 			 
Seelyeville	   90	0-10	120-200	   4.5-7.3	   0	0	l   0
=		10-80	•			0	0
athro	   3	0-11	   120-180	4.5-7.9	   0	0	   0
	J   		120-180			0	l 0
		23-60	10-20	7.4-8.4		0	0
ora	3		120-180			0	0
		12-32 32-36	120-180   20-60	4.5-7.8   6.1-8.4		0	0   0
	 	36-60	•	6.1-8.4			0
İ	İ		į	İ	į į		İ
Iarkey	3		120-180			0	0
	! !	32-60	1 1.0-5.0	5.6-8.4	0-5	0	0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	reaction	Calcium   carbon-    ate	Gypsum	Salinity     
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
1000							
209A: Berner	1 1	   0-28	120-180	   56-73		0	l I 0
Berner	- 1	28-31	:	6.1-7.3	: :	0	l 0
i			!	6.1-7.8	: :	0	l o
		44-80	10-20	7.4-8.4	: :	0	0
j	i		İ		i i		İ
210A:	I						l
Eckvoll	70	0-9	!	6.1-7.3	: :	0	0
			!	6.1-7.3	: :	0	0
		25-32	:	6.6-7.8	: :	0	0
		32-80	10-20	7.4-8.4	10-20	0	] 0 !
  Chilgren	12	0-4	5.0-20	   6.1-7.3	I 0 I	0	I I 0
gross			:	6.1-7.3	: :	0	l 0
i		10-18	•	6.1-7.8	: :	0	l 0
i		18-72		7.4-8.4	: :	0	0
		72-80	!	7.4-8.4	: :	0	0
İ	İ				l İ		l
Grygla	8	0-6	5.0-15	6.1-7.3	0	0	0
			:	6.6-7.8		0	0
		26-80	10-20	7.4-8.4	10-20	0	0
Jammag		06	0 25	   <i>6</i> 1 7 2		0	l l 0
Garnes	, ,	0-6 6-9	:	6.1-7.3 6.1-7.3	: :	0	l 0
		9-14	:	6.6-7.8		0	l 0
		14-72		7.4-8.4	! !	0	l 0
		72-80	:	7.4-8.4	: :	0	0
	i		i		i i		İ
Pelan	3	0-6	5.0-25	6.1-7.3	0	0	0
I	I	6-9	1.0-10	6.1-7.3	0	0	0
I	I	9-14	10-20	6.1-7.8	0	0	0
			1.0-5.0	7.4-8.4	: :	0	0
		20-60	10-20	7.4-8.4	10-20	0	0
!11A:							 
Berner, ponded	45	l l 0-28	1 120-180	l   5.6-7.3	I 0 I	0	I I 0
serner, ponded	1 1	•	:	6.1-7.3	: :	0	l 0
				6.1-7.8	: :	0	l 0
i		44-80	:	7.4-8.4	: :	0	0
	i	j	į	j	į į		İ
Cathro, ponded	45	0-11	120-180	4.5-7.8	j 0 j	0	0
I	I	11-23	120-180	4.5-7.8	0	0	0
		23-60	10-20	7.4-8.4	10-20	0	0
						_	
Chilgren	2	•	•	6.1-7.3		0	0
			!	6.1-7.3	: :	0	0
				7.4-8.4		0	0   0
			10-25		10-20	0	l 0
			_0 20	, J. 4	,, <u>,</u>	J	İ
rygla	2	0-6	5.0-15	6.1-7.3	0	0	0
i	i		•	6.6-7.8		0	0
į	į	26-80	:	7.4-8.4	10-20	0	0
							ļ
amre	2		120-180			0	0
			:	5.1-7.8			0
			10-20	6.6-8.4		0	0
		35-80	10-20	7.4-8.4	10-20	0	0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	Soil  reaction 	Calcium   carbon-    ate	Gypsum     	Salinity
		In	meq/100 g	PH	Pct	Pct	mmhos/cn
 211A:			 	 			
Northwood	2	0-9	120-180	5.1-7.8	0	0	0
		9-14	5.0-20	5.6-7.8	0-5	0	0
ļ		14-24	1.0-5.0	5.6-8.4	0-15	0	0
		24-80	10-20	7.4-8.4	10-20	0	0
  Seelyeville, ponded	2	0-10	120-200	4.5-7.3	0	0	0
į		10-80	140-200	4.5-7.3	0	0	0
LA:			 	 			
Augsburg	75	0-11	10-30	7.4-8.4	5-25	0	0
İ	İ	11-18	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
I	l	18-33	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
ļ		33-60	20-50	7.4-8.4	10-30	0-1	0.0-2.0
ا  Borup	10	0-12	10-30	   7.4-8.4	5-25	0	0
į	i	12-34	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
į	İ	34-60	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
  Foxlake	5	0-19	20-40	   6.6-7.8	0-5	   0	0
	_	19-38		7.4-8.4	0-5	0	0
i		38-49	20-50	7.4-8.4	10-30	0-1	0.0-2.0
į	İ	49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
 Augsburg,			 	 	 	 	
depressional	3	0-11	10-45	7.4-8.4	5-25	0	0
İ		11-18	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
İ		18-33	3.0-15	7.4-8.4	30-35	0-1	0.0-2.0
į		33-60	20-50	7.4-8.4	10-30	0-1	0.0-2.0
  Wheatville	3	   0-9	10-25	   7.4-8.4	5-25	   0	0
į	i	9-31	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
		31-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
  Glyndon	2	   0-11	10-25	   7.4-8.4	5-25		0
i	i	11-28	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
į	į	28-60	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
  Espelie	1 1	   0-9	   10-30	   6.6-7.3	   0	   0	0
loperie	-	9-24	2.0-8.0	6.6-7.8	0-10	0 1	0
į	i	24-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
  Hattie	1 1	   0-8	1 30-55	   7.4-8.4	0-5	   0	0
	- 1	8-22	:	7.4-8.4			0.0-2.0
i		22-80		7.4-8.4			0.0-2.0
77.							
3A:     Berner	80	   0-28	120-180	5.6-7.3	1 0	0	0
į	į	28-31	5.0-20	6.1-7.3	j 0 j	0 j	0
İ	İ	31-44	1.0-5.0	6.1-7.8	0-5	0	0
		44-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
 	7	0-9	   120-180	   5.1-7.8	0	0	0
i			5.0-20	•		0	0
į	i	14-24	1.0-5.0	5.6-8.4	0-15	0	0
į	İ	24-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Kratka	5	0-11	10-30	   5.6-7.8	   0	   0	0
i			1.0-12	•		0	0
i	İ		2.0-10	•		0	0
i		25-80	10-20	7.4-8.4	1 10-20	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	:		Gypsum	Salinity
		In	meq/100 g	рн	Pct	Pct	mmhos/cr
  Hamre	3	0-13	120-180	   5.1-7.8	l   0-5	l 0 l	0
		13-18	15-35	5.1-7.8	0-10		0
i		18-71	10-20	6.6-8.4	:		0
į		71-80	10-20	7.4-8.4			0.0-2.0
Strathcona	3	0-10	10-30	   7.4-8.4	   5-15	   0	0
	, J		5.0-15		15-30		0.0-2.0
		17-28	2.0-8.0	7.4-8.4			0.0-2.0
j		28-80	10-20	7.4-8.4		0-1	0.0-2.0
  Seelyeville	2	0-10	120-200	   4.5-7.3	   0	   0	0
seeryeville	2	10-80	140-200	4.5-7.3	0	0 1	0
į			į	į	į į	İ	
4A: Berner	30	0-28	   120-180	   5.6-7.3	   0	   0	0
Seriier	30		5.0-20	6.1-7.3	I 0	l 0 1	0
			1.0-5.0	6.1-7.8	0-5	0 1	0
		44-80	10-20	7.4-8.4	10-20	0-1	0.0-2.
Rosewood,				 			
depressional	30	0-8	10-40	   7.4-8.4	   5-25	   0	0
- i		8-18	2.0-10	•	15-40	0-1	0.0-2.0
İ	İ	18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
't wat haana				l I			
Strathcona, depressional	30	0-10	1 10-45	   7.4-8.4	   5-15	l 0 I	0
		10-17	!		15-30		0.0-2.
i		17-28	2.0-8.0	7.4-8.4			0.0-2.
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.
  Rosewood	4	0-8	   10-25	   7.4-8.4	   5-25	l I I 0 I	0
	_	8-18	2.0-10	•	15-40		0.0-2.0
j		18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
  Deerwood	2	0-10	   100-180	   5.6-7.8	   0-5	   0	0
	2	10-12	:	6.1-8.4			0
		12-60	1.0-5.0	7.4-8.4			0
		0.10					
Mavie	2	0-12	10-30   5.0-20	7.4-8.4	5-15   15-40		0
		12-18 18-39	1.0-5.0	7.9-8.4			0.0-2.
		39-80		7.4-8.4			0.0-2.
			į	İ	į		
Strathcona	2		10-30	•			0
				7.4-8.4			0.0-2.0
		28-80	2.0-8.0	7.4-8.4			0.0-2.0
						·	
5A:	75	0.10	10.30				•
Borup	75		10-30   5.0-15	7.4-8.4			0 0.0-2.0
			•	7.4-8.4			0.0-2.0
							_
Glyndon	9			7.4-8.4			0
			•	7.4-8.4			0.0-2.0
						· -	
Rosewood	8		•	7.4-8.4			0
			•	7.4-8.4			0.0-2.0
		18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	201011	Cation-  exchange  capacity	   Soil  reaction   	  Calcium   carbon-    ate	Gypsum	Salinity
		In	meq/100 g	pH	Pct	Pct	mmhos/cm
[5A:				  -			
Augsburg	5	0-11	10-30	   7.4-8.4	5-25	0	0
j	į	11-18	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
		18-33	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
		33-60	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Augsburg,				 			
depressional	3	0-11	10-45	7.4-8.4	5-25	0	0
I	I	11-18	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
		18-33	3.0-15	7.4-8.4	30-35	0-1	0.0-2.0
		33-60 	20-50	7.4-8.4	10-30	0-1	0.0-2.0
[7A:				! 	i i		
Bowstring	45	0-38	80-180	5.6-8.4	0-25	0	0
		38-47	10-40	5.6-8.4	: :	0	0
		47-80	80-180	5.6-8.4	0-25	0	0
Fluvaquents	45	   0-16	10-35	   6.6-7.8	0-10	0	0
j	i	16-80	5.0-30	6.6-7.8	0-15	0	0.0-2.0
Hamludalla	E		   10-35	   6.6-7.8		0	   0
Hapludolls	5	0-9 9-60	10-35	7.4-8.4	0-10     0-10	0	0   0
					i - i		
Water	5						
18A:				 			
Cathro	80	0-11	120-180	4.5-7.8	j 0 j	0	0
		11-23	120-180	4.5-7.8	0	0	0
		23-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Hamre	8	0-13	120-180	5.1-7.8	0-5	0	0
I	I	13-18	15-35	5.1-7.8	0-10	0	0
		18-71	10-20	6.6-8.4	: :	0	0
		71-80 	10-20	7.4-8.4 	10-20	0-1	0.0-2.0
Northwood	3	0-9	120-180	5.1-7.8	o	0	0
I	I	9-14	5.0-20	5.6-7.8	0-5	0	0
		14-24	1.0-5.0	5.6-8.4	: :	0	0
		24-80 	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Roliss	3	0-14	20-40	6.6-8.4	0-10	0	0
	I	14-20	10-25	7.4-8.4	5-15	0-1	0.0-2.0
		20-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Berner	2	0-28	1 120-180	   5.6-7.3	0	0	0
İ	İ	28-31	5.0-20	6.1-7.3	0	0	0
I	I	31-44	1.0-5.0	6.1-7.8	0-5	0	0
		44-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Kratka	2	0-11	10-30	5.6-7.8	0	0	0
j	į	11-18	1.0-12	5.6-7.8	0-5	0	0
			•	6.6-7.8			0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Seelyeville	2	0-10	120-200	4.5-7.3	0	0	0
i	į	10-80	140-200	4.5-7.3	i	0	0
[9A:				 			
Clearwater	80	0-8	30-65	   6.6-7.8	0-5	0	0
j	İ	8-35	•	7.4-8.4		0	0
		35-80	20-50	7.4-8.4	. :	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation- exchange capacity	   Soil  reaction	  Calcium   carbon-    ate	Gypsum	   Salinity 
			capacity	 	ate   		 
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
İ	İ		İ	ĺ	į į	j	ĺ
9A:			ļ		!!!		
Clearwater, very	5	00	] ] 30 6E	   <i>6 6 7</i> 0		0	
cobbly	) 5   	0-8 8-35	30-65 20-50	6.6-7.8   7.4-8.4	: :	0	0   0
		35-80	20-50	7.4-8.4	: :	0-1	0.0-2.0
	i		İ		i i		
Reis	5	0-9	30-65	7.4-8.4	5-20	0	0
	I	9-17	25-65	7.4-8.4	15-25	0	0
		17-33	:	7.4-8.4	: :	0-1	0.0-2.0
		33-42	•	7.4-8.4	: :	0-1	0.0-2.0
		42-60 60-80	20-50	7.4-8.4 7.4-8.4	: :	0-1 0-1	0.0-2.0
		00-00	20-30 	/.4-0.4 	10-30   	0-1	0.0-2.0 
Clearwater,			<u> </u>	İ	, '		İ
depressional	3	0-8	20-60	6.6-7.8	0-5	0	0
j	į	8-35	20-55	7.4-8.4	3-25	0	0
I		35-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Espelie	3	0-9	10-30	6.6-7.3   6.6-7.8		0	0   0
		9-24 24-80	2.0-8.0	7.4-8.4	: :	0 0-1	0.0-2.0
		24-00 	20-50 	/.4-0.4 	10-30	0-1	0.0-2.0 
oxlake	2	0-19	20-40	6.6-7.8	   0-5	0	l 0
		19-38	!	7.4-8.4	: :	0	0
j	j	38-49	20-50	7.4-8.4	10-30	0-1	0.0-2.0
		49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Hattie	1	0-8	30-55	7.4-8.4		0	0
		8-22 22-80	20-55	7.4-8.4 7.4-8.4	: :	0-1 0-1	0.0-2.0
		22-00	20-30 	/.1-0.1 	10-30   	0-1	0.0-2.0 
Huot	1	0-14	5.0-25	7.4-8.4	   5-25	0	0
j	j	14-26	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
	I	26-34	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
		34-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
   11 <b>A:</b>				l			l
Deerwood	85 I	   0-10	100-180	   5.6-7.8	   0-5	0	l l 0
Jeel wood	05	10-12	!	6.1-8.4	: :	0	l 0
		12-60	1.0-5.0	7.4-8.4	10-20	0	0
j	į		İ	İ	i i	j	İ
Rosewood	6	0-8	10-25	7.4-8.4	5-25	0	0
			2.0-10				0.0-2.0
		18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
  Markey	3	0-32 	   120-180	   1 5_7 0	   0	0	l I 0
markey	3		1.0-5.0	•		0	l 0
		32 00	1.0 3.0	3.0 0.1 			l
Strathcona	2	0-10	10-30	7.4-8.4	   5-15	0	0
j	j	10-17	5.0-15	7.4-8.4	15-30	0-1	0.0-2.0
	I	17-28	2.0-8.0	7.4-8.4	5-15	0-1	0.0-2.0
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
			10.05			^	1
Syrene	2	0-9	•	7.4-8.4 7.9-8.4			0 0.0-2.0
			1.0-5.0	•			0.0-2.0
			1.0-5.0	•			0.0-2.0
i					, - <b></b>   	-	
					i	•	
Venlo	2	0-13	15-40	6.1-7.3	0	0	0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of     map unit  	_	Cation- exchange capacity			Gypsum     	Salinity
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
12A:	 		 				
Eckvoll	70	0-9	3.0-15	6.1-7.3	j o j	0	0
		9-25	1.0-10	6.1-7.3	0	0	0
		25-32		6.6-7.8		0	0
	 	32-80	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0
Kratka	8	0-11	10-30	5.6-7.8	o	0	0
		11-18	1.0-12	5.6-7.8		0	0
			2.0-10	6.6-7.8	: :	0	0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Smiley	7	0-12	10-25	   6.6-7.8	0-5	0	0
	j i	12-19	10-30	6.6-8.4	0-10	0	0
		19-42	10-25	7.4-8.4	15-30	0-1	0.0-2.0
		42-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Linveldt	   5	0-9	10-25	   6.6-7.8	   0	0	0
	j i	9-16	8.0-20	6.6-7.8		0	0
j	İ	16-29	1.0-5.0	7.4-8.4	0-15	0	0
		29-45		7.4-8.4		0-1	0.0-2.0
		45-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Reiner		0-7	5.0-25	   6.6-7.3	0 1	0	0
	j i	7-17	15-30	6.6-7.3	0-10	0	0
		17-35	10-25	7.4-8.4	15-25	0-1	0.0-2.0
		35-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Foldahl	   2	0-12	5.0-15	   6.1-7.8	0-5	0	0
	j i	12-30	2.0-10	6.6-7.8	0-10	0 j	0
		30-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Pelan	   2	0-6	   5.0-25	   6.1-7.3	   0	0 I	0
	i	6-9	•	6.1-7.3		0	0
	j i	9-14	10-20	6.1-7.8	0	0	0
		14-20	1.0-5.0	7.4-8.4	0-15	0	0
		20-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Poppleton	1 1	0-6	3.0-12	   5.6-7.3	0	0	0
	j i	6-9	1.0-6.0	6.1-7.8	0-5	0 j	0
		9-40	1.0-6.0	6.1-7.8	0-10	0	0
		40-60	1.0-6.0	6.1-7.8	0-15	0	0
13A:	 					i	
Espelie	75	0-9		6.6-7.3		0	0
		9-24		6.6-7.8		0	0
		24-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
oxlake	8	0-19	20-40	6.6-7.8	0-5	0	0
		19-38	20-55	7.4-8.4	0-5	0	0
		38-49	•	7.4-8.4		0-1	0.0-2.0
		49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
ilaire		0-10	10-25	   6.6-7.3	0-5	0	0
j	į į	10-34	•	6.6-7.8		o j	0
	ļ	34-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Clearwater,	 		 	[ [	 	ļ	
depressional	5	0-8	20-60	   6.6-7.8	0-5	0	0
	i	8-35	•	7.4-8.4		0	0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit		Cation- exchange capacity		Calcium   carbon-    ate	Gypsum	Salinity
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
13A:	 	 	 		 		 
Thiefriver	5	0-12	10-30	7.4-8.4	5-25	0	0
		12-23	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
		23-32 32-80	1.0-5.0	7.4-8.4 7.4-8.4	5-20     10-30	0-1 0-1	0.0-2.0
		32-80	20-30	/	10-30	0-1	0.0-2.0
15A: Flaming	   70	   0_12	   5.0-15	   5.6-7.3	   0	0	   0
r Taming	, , , , , , , , , , , , , , , , , , ,		:	5.6-8.4	! !	0	l 0
			:	5.6-8.4	: :	0	l 0
		27-60	1.0-5.0	5.6-8.4	: :	0	0
Garborg	   10	   0-12	   5.0-20	   6.1-7.8	   0	0	   0
<b>3</b>			:	6.6-8.4	: :	0	0
	İ	41-59	1.0-5.0	7.4-8.4	5-15	0	0
		59 <b>-</b> 80	1.0-5.0	7.4-8.4	0-2	0	0
Hamar	   5	   0-12	   5.0-25	   6.1-7.8	   0	0	   0
		12-17	3.0-10	6.6-7.8	0-1	0	0
		•	:	7.4-7.8	: :	0	0
			:	6.1-7.8	: :	0	0
	 	47-60 	1.0-5.0	7.4-8.4	0-2   	0	0 
Ulen	5	0-9	10-25	7.4-8.4	: :	0	0
	 	9-42   42-60	5.0-15   1.0-5.0	7.4-8.4	15-40     5-25	0-1 0-1	0.0-2.0
		00	į		i i	v -	
Poppleton	3	0-6	•	5.6-7.3		0	0
		6-9   9-40	•	6.1-7.8 6.1-7.8		0	0   0
		40-60	•	6.1-7.8		0	0
Sandberg	   3	   0-12	   3.0-15	   5.6-7.8	   0-5	0	   0
Sandberg	]	12-19	:	6.1-7.8	0-5	0	l 0
		19-29	•	7.4-8.4		0	0
		29-80	1.0-5.0	7.4-8.4	5-10	0	0
Foldahl	   2	   0-12	   5.0-15	   6.1-7.8	   0-5	0	l   0
	İ	12-30	2.0-10	6.6-7.8	0-10	0	0
		30-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Radium	   2	   0-14	3.0-12	   6.1-7.8	0-5	0	   0
		14-33	2.0-8.0	6.6-8.4	2-10	0	0
		33-43 43-80	1.0-5.0				0
	 	43-80 	1.0-5.0	7.4-8.4 	5-15   	0	0 
16F:							İ
Fluvaquents	55	0-16   16-80	10-35 5.0-30	6.6-7.8 6.6-7.8	0-10     0-15		0 0.0-2.0
		10-80	3.0-30	0.0-7.8	0-13	U	0.0-2.0
Hapludolls	25	0-9	10-35	6.6-7.8		0	0
	 	9-60 	10-30	7.4-8.4	0-10	0	0 
Hapludalfs	7	0-6	10-20	6.1-7.8		0	0
		6-8	5.0-15	6.1-7.8		0	0
	 	8-25 25-80	15-30   5.0-25	6.6-7.8 7.4-8.4		0	0   0
		İ	į	İ	į į		
Fairdale	5	0-7	15-30	7.4-7.8		0	0
		7-48	10-30	7.4-8.4			0.0-2.0
	 	48-67   67-80	15-30   10-30	7.4-7.8 7.4-8.4	3-10     5-35		0.0-2.0
		0,-00	1 10-30	1 / • = -0 • =	2-33	U	1 0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	-	Cation- exchange capacity	   Soil  reaction   	Calcium  carbon-   ate	Gypsum	   Salinity     
		In	meq/100 g	PH	Pct	Pct	mmhos/cm
116F:		İ	 	l I			 
Water	5						
Bowstring	2	   0-38	   80-180	   5.6-8.4	   0-25	0	l l 0
	_	38-47	:	5.6-8.4		0	0
		47-80	80-180	5.6-8.4	0-25	0	0
Rauville	1	   0-27	25-60	   7.4-8.4	   5-15	0	   0.0-2.0
i		27-45	15-40	7.4-8.4	10-20	0-1	0.0-2.0
		45-60	3.0-30	7.4-8.4	5-20	0-1	0.0-2.0
I17A:			 	<u> </u> 			 
Foldahl	75	0-12	10-25	6.1-7.8	0-5	0	0
I		12-30	2.0-10	6.6-7.8	0-10	0	0
		30-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Kratka	10	0-11	10-30	5.6-7.8	0	0	0
			:	5.6-7.8		0	0
			!	6.6-7.8			0
		25-80 	10-20 	7.4-8.4 	10-20 	0-1	0.0-2.0 
Roliss	5	0-14	20-40	6.6-8.4	0-10	0	0
		14-20	:	7.4-8.4		0-1	0.0-2.0
		20-80 	10-20	7.4-8.4 	10-20 	0-1	0.0-2.0 
Flaming	4	0-12	5.0-15	5.6-7.3	0	0	0
			:	5.6-8.4		0	0
			:	5.6-8.4		0	0
		27-60 	1.0-5.0	5.6-8.4 	0-10 	0	0 
Grimstad	2	0-9	10-25	7.4-8.4	5-15	0	0
			5.0-15	7.4-8.4			0.0-2.0
		22-28 28-60	1.0-5.0	7.4-8.4 7.4-8.4		0-1 0-1	0.0-2.0 0.0-2.0
		28-00	10-20	/.1-0.1	10-20	0-1	0.0-2.0
Linveldt	2	0-9	:	6.6-7.8		0	0
			!	6.6-7.8	:	0	0
		29-45	:	7.4-8.4 7.4-8.4		0 0-1	0   0.0-2.0
		45-80	:	7.4-8.4		0-1	0.0-2.0
_ , ,,							
Eckvoll	1		:	6.1-7.3 6.1-7.3	:	0	0   0
				6.6-7.8		0	l 0
		32-80	•	7.4-8.4		0-1	0.0-2.0
Strathcona	1	   0=10	10-30	   7.4-8.4	5_15	0	   0
	-		•	7.4-8.4			0.0-2.0
i			2.0-8.0	7.4-8.4			0.0-2.0
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
I18A:		<u> </u>	 	 			 
Foldahl	75	0-12	5.0-15	6.1-7.8	0-5	0	0
İ	ļ			6.6-7.8			0
		30-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Kratka	10	0-11	10-30	   5.6-7.8	0	0	0
İ	ĺ	•	•	5.6-7.8		0	0
		•	•	6.6-7.8			0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

	5   1   1   1   1   1   1   1   1   1	0-14 14-20 20-80 0-12 12-17	10-25	6.6-8.4 7.4-8.4	Pct         	Pct	mmhos/cm
Roliss	4   	14-20 20-80 0-12 12-17	10-25	7.4-8.4	       0-10		l
Roliss	4   	14-20 20-80 0-12 12-17	10-25	7.4-8.4	   0-10	l	
 	4   	14-20 20-80 0-12 12-17	10-25	7.4-8.4	1 0-10	0	l I 0
Grimstad	     	0-12 12-17			5-15	0-1	0.0-2.0
Grimstad	     	12-17		7.4-8.4	10-20	0-1	0.0-2.0
Grimstad	     	12-17					
	         2			5.6-7.3 5.6-8.4		0   0	0   0
	     2	17-27		5.6-8.4	! ' !	0	l 0
	2	27-60	1.0-5.0	5.6-8.4	: :	0	0
	2	0.0	10.05			0	   0
 	i	0-9 9-22	10-25   5.0-15	7.4-8.4 7.4-8.4	: :	0-1	0.0-2.0
Linveldt	i	22-28	1.0-5.0	7.4-8.4	: :	0-1	0.0-2.0
Linveldt	i	28-60	10-20	7.4-8.4	: :	0-1	0.0-2.0
rinvergr		0.0	10.05				
1	2	0-9 9-16		6.6-7.8   6.6-7.8	: :	0   0	0   0
i i	i			7.4-8.4		0	I 0
i	i	29-45	10-25	7.4-8.4	: :	0-1	0.0-2.0
į	į	45-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Eckvoll	1 I	0-9	   3.0-15	   6.1-7.3	   0	0 i	   0
	-			6.1-7.3	! !	0	l 0
i	i			6.6-7.8	: :	0	0
į	į	32-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Strathcona	1 I	0-10	   10-30	   7.4-8.4	   5-15	0 1	   0
	-		5.0-15	7.4-8.4	: :	0-1	0.0-2.0
İ	į	17-28	2.0-8.0	7.4-8.4	5-15	0-1	0.0-2.0
	ļ	28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
I19A:			 		 		l 
Foxhome	65	0-10	10-25	6.6-7.8	j o j	0	0
İ	ĺ	10-15	1.0-8.0	6.6-7.8	0-10	0	0
Į.	ļ	15-23	1.0-5.0	7.4-8.4	: :	0	0
	ļ	23-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Kittson	10	0-10	10-35	   6.6-7.8	0	0	   0
İ	ĺ	10-17	10-25	6.6-7.8	0-5	0	0
Į.	ļ	17-36		7.4-8.4	: :	0-1	0.0-2.0
	ļ	36-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Strandquist	10	0-10	15-30	6.6-8.4	0-10	0	0
İ	ĺ	10-20	1.0-5.0	7.4-8.4	5-15	0	0
	ļ	20-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Foldahl	5	0-12	   10-25	   6.1-7.8	ı     0-5	0	   0
İ	i			6.6-7.8			0
	!	30-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
 	5 I	0-9	   10-25	   7.4-8.4	   5-15	0	   0
	-		:	7.4-8.4	: :		0.0-2.0
İ	i		1.0-5.0				0.0-2.0
	į	28-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Roliss	3 I	0-14	   20-40	   6.6-8.4	   0-10	0	   0
	-			7.4-8.4			0.0-2.0
j	i			7.4-8.4			

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	-	   Cation-  exchange  capacity	reaction		Gypsum	   Salinity     
		In	meq/100 g	pH	Pct	Pct	mmhos/cm
				ļ	!!!		!
I19A: Mavie	2	   0-12	10-30	   7.4-8.4	   5-15	0	   0
mavie		12-18	5.0-20	7.4-8.4	5-15     15-40	0-1	0.0-2.0
i		18-39	1.0-5.0	7.4-8.4	10-25	0-1	0.0-2.0
		39-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
	j i		İ	j	i i		j
I20A:				l			
Foxlake	75	0-19	20-40	6.6-7.8	0-5	0	0
		19-38	20-55	7.4-8.4	: :	0	0
		38-49	20-50	7.4-8.4	: :	0-1	0.0-2.0
		49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Clearwater	5	   0-8	30-65	   6.6-7.8	0-5	0	I I 0
01001		8-35	20-50	7.4-8.4	: :	0	i 0
İ		35-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
	j i	İ	İ	İ	į į		İ
Foxlake, very cobbly	5	0-19	20-40	6.6-7.8	0-5	0	0
		19-38	20-55	7.4-8.4	: :	0	0
		38-49	20-50	7.4-8.4	: :	0-1	0.0-2.0
		49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Augsburg	3	   0-11	10-30	   7.4-8.4	l 5-25 l	0	l I 0
Augsburg	]	11-18	5.0-20	7.4-8.4	3-23     15-40	0-1	0.0-2.0
		18-33	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
i		33-60	20-50	7.4-8.4	1 10-30	0-1	0.0-2.0
İ			İ	İ	i i		İ
Clearwater,	İ		İ	ĺ	į į		ĺ
depressional	3	0-8	20-60	6.6-7.8	0-5	0	0
		8-35	20-55	7.4-8.4	3-25	0	0
		35-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Espelie	3	   0-9	10-30	   6.6-7.3	I I I 0 I	0	l I 0
Espeile	]	9-24	2.0-8.0	6.6-7.8	0-10	0	I 0
		24-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
İ			i	İ	i i		į
Hilaire	2	0-10	10-25	6.6-7.3	0-5	0	0
		10-34	2.0-8.0	6.6-7.8	0-10	0	0
		34-80	20-50	7.4-8.4	10-30	0-1	0.0-1.0
Dair			]	7404		0	
Reis	2	0-9   9-17	30-65 25-65	7.4-8.4	5-20     15-25	0	0   0
		17-33	25-50	7.4-8.4		0-1	0.0-2.0
				7.4-8.4			0.0-2.0
i		42-60		7.4-8.4			0.0-2.0
İ		60-80	•	•	10-30		0.0-2.0
			1	l			[
Wheatville	2	0-9	10-25	7.4-8.4			0
		•	5.0-20	7.4-8.4			0.0-2.0
		31-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
I22A:		] 	I	l I	 		I I
Glyndon	75	0-11	10-30	   7.4-8.4	   5-25	0	I I 0
		•	5.0-15	7.4-8.4			0.0-2.0
		•	3.0-15	•	10-30	0-1	0.0-2.0
			İ	İ	į į		İ
Borup	10	0-12	10-30	7.4-8.4	5-25	0	0
		•	5.0-15		15-40		0.0-2.0
		34-60	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
		l	I	I	ı I		I

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation- exchange capacity	reaction	: :	Gypsum	Salinity
		In	meq/100 g	pH	Pct	Pct	mmhos/cm
22A:			 	 	 		 
Augsburg	5	0-11	10-30	7.4-8.4	5-25	0	0
į	İ	11-18	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
		18-33	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
		33-60	20-50	7.4-8.4	10-30	0-1	0.0-2.0
   Ulen	5	0-9	10-25	7.4-8.4	5-25	0	0
		9-42	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
		42-60	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
Wheatville	3	0-9	10-25	7.4-8.4	5-25	0	0
		9-31	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
		31-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Flaming	2	0-12	5.0-15	5.6-7.3	0	0	0
		12-17	3.0-15	5.6-8.4	0-3	0	0
		17-27	1.0-8.0	5.6-8.4	: :	0	0
		27-60	1.0-5.0	5.6-8.4 	0-10   	0	0 
24A:			İ	İ	i i		İ
Grimstad	70	0-9	10-25	7.4-8.4	5-15	0	0
		9-22 22-28	5.0-15   1.0-5.0	7.4-8.4	15-30     5-20	0-1 0-1	0.0-2.0 0.0-2.0
		28-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
					-0 -0		
Strathcona	12	0-10	10-30	7.4-8.4	5-15	0	0
		10-17	5.0-15	7.4-8.4	15-30	0-1	0.0-2.0
		17-28 28-80	2.0-8.0   10-20	7.4-8.4 7.4-8.4	5-15     10-20	0-1 0-1	0.0-2.0
	_				į į		
Foldahl	5	0-12   12-30	10-25   2.0-10	6.1-7.8   6.6-7.8	0-5     0-10	0	0   0
		30-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
	_						
Hamerly	5	0-8 8-25	15-35   10-25	6.6-8.4   7.4-8.4	0-25     15-35	0 0-1	0   0.0-2.0
		25-60	10-23	7.4-8.4	10-20	0-1	0.0-2.0
T1			10.05			•	
Foxhome	2	0-10 10-15	10-25   1.0-8.0	6.6-7.8   6.6-7.8	0     0-10	0	0   0
		15-23	1.0-5.0	7.4-8.4	5-15	0	l 0
j		23-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Karlsruhe	2	   0-15	   10-25	   6.6-8.4	   5-20	0	   0
ital 151 and	_	•	•	7.4-8.4			l 0
į		•	1.0-5.0	•		0	0
  Mavie	2	   0-12	10-30	   7.4-8.4	   5-15	0	   0
	_		:	7.9-8.4	: :		0.0-2.0
j	j i	18-39	1.0-5.0	7.4-8.4	10-25	0-1	0.0-2.0
		39-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Ulen	2	0-9	10-25	   7.4-8.4	   5-25	0	   0
j		9-42	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
		42-60	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
25A:				! 	 		 
Hamar	75	•	5.0-25	•		0	0
		•	3.0-10	•		0	0
		•	1.0-5.0	•		0	0
		•	5.0-15   1.0-5.0	6.1-7.8		0	0   0
		1 - 1 - 0 U	1 1.0-2.0	/• <del>1</del> -0•4	U-Z	U	ı <sup>U</sup>

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of     Map unit  	_	Cation-  exchange  capacity	reaction		Gypsum	   Salinity     
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
			į	į	į į		İ
I25A:     Garborg	   10	   0-12	   5.0-20	   6.1-7.8	   0	0	   0
Garborg	±0   	12-41	3.0-10	6.6-8.4	! !	0	I 0
i	i i	41-59	1.0-5.0	7.4-8.4	5-15	0	0
		59-80	1.0-5.0	7.4-8.4	0-2	0	0
Rosewood	   7	   0-8	   10-25	   7.4-8.4	   5-25	0	   0
1102011000	·	8-18	2.0-10	7.4-8.4	1 15-40	0-1	0.0-2.0
j	j i	18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
******			15.40			•	
Venlo	3	0-13   13-60	15-40   1.0-5.0	6.1-7.3		0	0 0.0-2.0
		13 00			0 10	Ü	0.0 2.0
Flaming	2	0-12	!	5.6-7.3	: :	0	0
		12-17	3.0-15	5.6-8.4	: :	0	0
		17-27		5.6-8.4	: :	0	0
		27-60 	1.0-5.0	5.6-8.4 	0-10   	0	0 
Hangaard	2	0-10	10-25	6.6-7.8	0	0	0
İ	İ	10-15	5.0-20	6.6-7.8	0-5	0	0
		15-80	1.0-5.0	7.4-8.4	5-15	0	0
   Kratka		   0-11	10-30	   5.6-7.8	   0	0	l I 0
		11-18	1.0-12	5.6-7.8		0	0
i	j i	18-25	2.0-10	6.6-7.8	0-15	0	0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
126A:	 			 	 		 
Hamerly	75	0-8	15-35	6.6-8.4	0-25	0	,   0
İ	İ	8-25	10-25	7.4-8.4	15-35	0-1	0.0-2.0
		25-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Vallers	   12	   0-12	20-40	   7.4-8.4	10-20	0	l I 0
	i	12-21	!	7.4-8.4	15-35	0-1	0.0-2.0
		21-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Foxhome	   3	   0-10	   10-25	   6.6-7.8	   0	0	   0
FOXIOME	]	10-15	1.0-8.0	6.6-7.8	0-10	0	l 0
	i	15-23	1.0-5.0	7.4-8.4	: :	0	0
		23-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
 	   3	   0-9	   10-25	   7.4-8.4	   5-15	0	   0
GI IMSCAU	]	9-22	!	7.4-8.4	: :	0-1	0.0-2.0
	i	22-28	:	7.4-8.4	: :	0-1	0.0-2.0
		28-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Hamerly, very cobbly	   3	   0-8	   15-35	   6.6-8.4	   0-25	0	   0
nemerty, sery copply	ا ک ا	0-8   8-25	•	7.4-8.4	: :	0-1	0.0-2.0
	i i	25-60	!	7.4-8.4	10-20	0-1	0.0-2.0
Ghuath anns		0.10	10.30			0	
Strathcona	] 3   	0-10 10-17	:	7.4-8.4 7.4-8.4	: :	0 0-1	0 0.0-2.0
	 	10-17	2.0-8.0	7.4-8.4	15-30     5-15	0-1	0.0-2.0
		28-80	10-20	7.4-8.4		0-1	0.0-2.0
<u>.</u>					ļ į		l
Roliss, depressional	1 1	0-14	:	6.6-8.4	: :	0	0
	 	14-20 20-80	10-25   10-20	7.4-8.4 7.4-8.4	5-15     10-20	0-1 0-1	0.0-2.0
		0-00	10-20	1 ,.1-0.1	-0-20	U-I	5.0-2.0 

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	:	Calcium   carbon-    ate	Gypsum       	Salinity
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
27A:			 	 			
Hamre	80	0-13	120-180	5.1-7.8	0-5	0	0
		13-18	15-35	5.1-7.8	0-10	0	0
		18-71	!	6.6-8.4		0	0
		71-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Northwood	5	0-9	120-180	5.1-7.8	0	0	0
I		9-14	5.0-20	5.6-7.8	0-5	0	0
	I	14-24	1.0-5.0	5.6-8.4	0-15	0	0
		24-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  koliss	5	   0-14	20-40	   6.6-8.4	0-10	0 I	0
		14-20	:	7.4-8.4		0-1	0.0-2.0
į		20-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  miley	5	   0-12	   10-25	   6.6-7.8	   0-5	0 I	0
miley	5	12-19	•	6.6-8.4		0 1	0
		19-42	:	7.4-8.4	15-30	0-1	0.0-2.0
		42-80	:	7.4-8.4	10-20	0-1	0.0-2.0
1			100 100				
Cathro	3	0-11 11-23	120-180   120-180	4.5-7.8		0   0	0
		23-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
İ	İ		į	ĺ	į į	į	
ratka	2	0-11	:	5.6-7.8	: :	0	0
		11-18	1.0-12	5.6-7.8	0-5	0	0
		18-25 25-80	2.0-10   10-20	6.6-7.8   7.4-8.4	0-15     10-20	0   0-1	0 0.0-2.0
j	į		į	İ	į į	i	
32A: Hilaire	75	   0-10	   10-25	   6.6-7.3	   0-5	0 I	0
 	/5	10-34	2.0-8.0	6.6-7.8	0-3	0 1	0
		34-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
]	10		10.20				•
Espelie	12	0-9   9-24	10-30	6.6-7.3   6.6-7.8	0     0-10	0   0	0
		24-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
į	İ		İ	İ	į į	į	
[uot	5	0-14	5.0-25	7.4-8.4	5-25	0	0
			!	7.4-8.4	15-40     5-20	0-1   0-1	0.0-2.0 0.0-2.0
		34-80	1.0-5.0	7.4-8.4	10-30	0-1	0.0-2.0
İ	İ		į	ĺ	į į	į	
laming	2		5.0-15	•		0	0
			•	5.6-8.4		0	0
			1.0-8.0	•		0   0	0
i	i				i i	i	
oxlake	2			6.6-7.8		0	0
				7.4-8.4		0	0
		38-49   49-80	•	7.4-8.4		0-1   0-1	0.0-2.0 0.0-2.0
			į	İ	i i	i	
heatville	2			7.4-8.4			0
			•	7.4-8.4			0.0-2.0
		31-80 	20-50	7.4-8.4	10-30	0-1	0.0-2.0
hiefriver	1	0-12	10-30	   7.4-8.4	5-25	0	0
į	į	12-23	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
İ	İ	23-32	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
		32-80	20-50	7.4-8.4		0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

			,				
Map symbol and component name	Pct. of map unit	Depth	   Cation-  exchange  capacity 	   Soil  reaction   	  Calcium   carbon-    ate		   Salinity     
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
			i	į -	j i		İ
I32A:			1				[
Wyandotte	1	0-8	30-40	7.4-7.8	5-20	0	0
		8-15	10-20	7.9-8.4	15-25	0-1	0.0-2.0
		15-34   34-60	1.0-5.0	7.4-8.4 7.4-8.4	5-20     10-30	0-1 0-1	0.0-2.0
		34-00	20-30 	7.1-0.1	10-30	0-1	0.0-2.0
I34A:	i		i	İ	i i		İ
Huot	75	0-14	5.0-25	7.4-8.4	5-25	0	0
		14-26	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
		26-34	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
		34-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Thiefriver	   12	0-12	10-30	   7.4-8.4	5-25	0	I I 0
11110111101		12-23	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
		23-32	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
	j	32-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
			1				[
Hilaire	5	0-10	10-25	6.6-7.3	0-5	0	0
		10-34	2.0-8.0	6.6-7.8	0-10	0	0
		34-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Flaming	l   3	0-12	   5.0-15	   5.6-7.3	I 0 I	0	I I 0
r raming	] 	12-17	3.0-15	5.6-8.4		0	i 0
		17-27	1.0-8.0	5.6-8.4	: :	0	0
İ	İ	27-60	1.0-5.0	5.6-8.4	: :	0	j 0
İ			İ	ĺ	į į		ĺ
Foxlake	3	0-19	20-40	6.6-7.8	0-5	0	0
		19-38	20-55	7.4-8.4	: :	0	0
		38-49	20-50	7.4-8.4	10-30	0-1	0.0-2.0
	 	49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Ulen	l 2	0-9	10-25	7.4-8.4	5-25	0	I I 0
		9-42	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
	İ	42-60	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
			1				[
I36A:							
Kittson	70	0-10	10-35	6.6-7.8	0	0	0
		10-17   17-36	10-25 10-25	6.6-7.8   7.4-8.4	0-5     15-25	0 0-1	0 0.0-2.0
		36-60	10-25	7.4-8.4	10-20	0-1	0.0-2.0
			=====================================		-0 -0	V _	
Roliss	12	0-14	20-40	6.6-8.4	0-10	0	j o
		14-20	10-25	7.4-8.4	5-15	0-1	0.0-2.0
		20-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
			15 35		0.05	0	
Hamerly	5	0-8 8-25	15-35	6.6-8.4	0-25     15-35		0 0.0-2.0
		25-60	10-25   10-20	7.4-8.4		0-1 0-1	0.0-2.0
		25-00	1	7.1-0.1	10-20	0-1	0.0-2.0
Kratka	5	0-11	10-30	5.6-7.8	0	0	0
	İ	11-18	1.0-12	5.6-7.8	0-5	0	0
		18-25		6.6-7.8		0	0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Grimstad			10.05	7 4 0 4		0	1
Grimstad	] 3 I	0-9 9-22	10-25   5.0-15	7.4-8.4			0 0.0-2.0
	 	22-28	!	7.4-8.4			0.0-2.0
		28-60	10-20	•	10-20	0-1	0.0-2.0
		j	İ	İ	į i		İ
Strandquist	3	0-10	15-30	6.6-8.4	0-10	0	j 0
		10-20	:	7.4-8.4		0	0
		20-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
			I	l			I

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	!		Gypsum	Salinity   
		In	meq/100 g	Hq l	Pct	Pct	mmhos/cm
36A:			 	 			! 
Foxhome	2	0-10	10-25	6.6-7.8	0	0	0
		10-15	1.0-8.0	6.6-7.8	0-10	0	0
		15-23 23-80	1.0-5.0	7.4-8.4	5-15   10-20	0 0-1	0 0.0-2.0
		23-80	10-20	/.4-0.4 	10-20	0-1	0.0-2.0
38A:							
Kratka	70	0-11 11-18	10-30   1.0-12	5.6-7.8	!	0	0   0
		18-25	2.0-10	5.6-7.8   6.6-7.8		0	l 0
		25-80	10-20	7.4-8.4		0-1	0.0-2.0
g.,							
Smiley	7	0-12	:	6.6-7.8		0	0   0
		12-19   19-42	•	6.6-8.4	0-10   15-30		0.0-2.0
		42-80	!	7.4-8.4		0-1	0.0-2.0
		42-00	10-20	7.1-0.1	10-20	0-1	0.0-2.0
Foldahl	5	0-12		6.1-7.8	:	0	0
		12-30 30-80	2.0-10	6.6-7.8   7.4-8.4		0 0-1	0   0.0-2.0
		30-80	10-20	/.1-0.1	10-20	0-1	0.0-2.0
Kratka, very cobbly	5	0-11	!	5.6-7.8	!	0	0
			1.0-12	5.6-7.8		0	0
		18-25 25-80	2.0-10	6.6-7.8	:	0 0-1	0
		25-80 	10-20	7.4-8.4 	10-20	0-1	0.0-2.0 
Strathcona	5	0-10	10-30	7.4-8.4	5-15	0	0
		10-17	5.0-15	7.4-8.4	15-30	0	0.0-2.0
		17-28	2.0-8.0	7.4-8.4	:		0.0-2.0
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Kratka, depressional	3	0-11	10-40	6.6-7.8	0	0	0
		11-18	1.0-12	5.6-7.8	0-5	0	0
		18-25	2.0-10	6.6-7.8	0-15		0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Strandquist	3	0-10	15-30	6.6-8.4	0-10	0	0
		10-20	1.0-5.0	7.4-8.4	5-15	0	0
		20-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Linveldt	2	   0-9	10-25	   6.6-7.8	l l 0	0	l l 0
İ		9-16	8.0-20	6.6-7.8	0	0	0
j	İ	16-29	1.0-5.0	7.4-8.4	0-15	0	0
		29-45		7.4-8.4	15-25	0-1	0.0-2.0
		45-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
39A:				! 			
Linveldt	65		•	6.6-7.8		0	0
			•	6.6-7.8		0	0
			1.0-5.0	•			0
		29-45   45-80	:	7.4-8.4			0.0-2.0 0.0-2.0
			į	İ	į į		İ
Kratka	14		•	5.6-7.8		0	0
			•	5.6-7.8		0	0
		18-25   25-80	2.0-10	6.6-7.8   7.4-8.4	0-15 10-20		0 0.0-2.0
Reiner	10	0-7	:	6.6-7.3		0	0
		7-17	•	6.6-7.3			0
		17-35 35-80	:	7.4-8.4 7.4-8.4	15-25		0.0-2.0 0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation- exchange capacity	•		Gypsum       	Salinity
		In	meq/100 g	pH	Pct	Pct	mmhos/cm
I39A:				 		ļ	
Smiley	5	0-12	10-25	6.6-7.8	0-5	0	0
		12-19	:	6.6-8.4	: :	0	0
		19-42   42-80	•	7.4-8.4 7.4-8.4	15-30     10-20	0-1   0-1	0.0-2.0 0.0-2.0
		42-00	10-20	/. <del>1</del> -0.1	10-20	0-1	0.0-2.0
Eckvoll	3	0-9		6.1-7.3		0	0
		9-25	!	6.1-7.3	: :	0	0
		25-32 32-80	10-30   10-20	6.6-7.8   7.4-8.4	: :	0   0-1	0 0.0-2.0
					-0 -0	, , , , , , , , , , , , , , , , , , ,	0.00 = 0.0
Foldahl	2	0-12	•	6.1-7.8		0	0
			:	6.6-7.8   7.4-8.4		0   0-1	0 0.0-2.0
		30-80 	10-20 	/.4-0.4 	10-20   	0-1	0.0-2.0
Pelan	1	0-6	5.0-25	6.1-7.3	0	0	0
		6-9	:	6.1-7.3	: :	0	0
		9-14	10-20	6.1-7.8		0	0
		14-20 20-60	1.0-5.0	7.4-8.4		0   0-1	0 0.0-2.0
					-0 -0	, , , , , , , , , , , , , , , , , , ,	000 200
[41A:				l		ļ	
Markey	80	0-32 32-60	120-180	4.5-7.8   5.6-8.4		0   0	0
		32-60 	1.0-5.0	3.0-0.4	0-5   	0 1	0
Deerwood	12	0-10	100-180	5.6-7.8	0-5	0	0
	I		•	6.1-8.4		0	0
		12-60	1.0-5.0	7.4-8.4	10-20	0	0
Berner	2	0-28	120-180	   5.6-7.3		0	0
	į	28-31	5.0-20	6.1-7.3	į o į	0 j	0
			•	6.1-7.8		0	0
		44-80 	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0
Hamar	2	0-12	5.0-25	6.1-7.8	0	0	0
		12-17	3.0-10	6.6-7.8	0-1	0	0
			:	7.4-7.8		0	0
		40-47 47-60	5.0-15   1.0-5.0	6.1-7.8   7.4-8.4		0   0	0
		47-00	1.0-3.0	7.1-0.1	0-2	ı i	· ·
Seelyeville	2	0-10		4.5-7.3		0	0
		10-80	140-200	4.5-7.3	0	0	0
Syrene	2	l l 0-9	10-25	l   7.4-8.4	   5-20	0 I	0
2,10110	_		5.0-25				0.0-2.0
	İ	17-27	1.0-5.0	7.4-8.4	10-30	0-1	0.0-2.0
		27-60	1.0-5.0	7.4-8.4	5-15	0	0.0-2.0
[42A:			 	 	 	 	
Markey, ponded	85	0-32	120-180	4.5-7.8	0	0	0
	İ	32-60	1.0-5.0	5.6-8.4	0-5	0	0
Marriage	-	0.32	1 120 100			,	^
Markey	5		120-180	•		0   0	0
		== ==				, i	ŭ
Deerwood			100-180	•			0
			5.0-20	•			0
		12-60 	1.0-5.0	7.4-8.4 	10-20   	0	0
Seelyeville, ponded	4	0-10	120-200	4.5-7.3	0	0	0
			140-200	•		o i	0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	Depth	Cation- exchange capacity	Soil  reaction 	  Calcium   carbon-    ate		   Salinity     
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
					!!!		
42A: Hamar		   0-12	   5.0-25	   6.1-7.8	   0	0	   0
namar		12-17	3.0-25	6.6-7.8	: :	0	I 0
		17-40	1.0-5.0	7.4-7.8	: :	0	l 0
i	i	40-47	5.0-15	6.1-7.8	: :	0	0
j	İ	47-60	1.0-5.0	7.4-8.4	0-2	0	0
Hangaard	1	0-10	10-25	6.6-7.8	: :	0	0
		10-15   15-80	5.0-20   1.0-5.0	6.6-7.8   7.4-8.4	0-5     5-15	0	0   0
		13 00			3 13		,
43A:	İ		į	İ	į į		İ
Mavie	70	0-12	10-30	7.4-8.4	5-15	0	0
		12-18	5.0-20	7.9-8.4	15-40	0-1	0.0-2.0
		18-39	1.0-5.0	7.4-8.4	10-25     10-20	0-1	0.0-2.0
		39-80 	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0 
Vallers	10	0-12	20-40	7.4-8.4	   10-20	0	0
i	i i	12-21	10-25	7.4-8.4	15-35	0-1	0.0-2.0
		21-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Strandquist	   7	0 10	   15-30	   6.6-8.4	   0-10	0	
strandquist	, , <u>, , , , , , , , , , , , , , , , , </u>	0-10 10-20	1.0-5.0	7.4-8.4	: :	0	0   0
		20-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
					i i		
Strathcona	5	0-10	10-30	7.4-8.4	5-15	0	0
		10-17	5.0-15	7.4-8.4	15-30	0-1	0.0-2.0
		17-28	2.0-8.0	7.4-8.4	5-15	0-1	0.0-2.0
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Strathcona,			 		! ! ! !		 
depressional	3	0-10	10-45	7.4-8.4	5-15	0	0
İ	İ	10-17	5.0-15	7.4-8.4	15-30	0-1	0.0-2.0
		17-28	2.0-8.0	7.4-8.4	5-15	0-1	0.0-2.0
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Foxhome	   2	   0-10	   10-25	   6.6-7.8	   0	0	l I 0
		10-15	1.0-8.0	6.6-7.8		0	l 0
i	i	15-23	1.0-5.0	7.4-8.4		0	0
j	į į	23-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Karlsruhe	2	0-15	10-25	6.6-8.4	5-20	0	0
			3.0-15 1.0-5.0				0   0
		30-60 	1 1.0-5.0	/.4-0.4 	10 <b>-</b> 25   	0	
Grimstad	1	0-9	10-25	7.4-8.4	   5-15	0	0
i	i i		5.0-15	7.4-8.4	   15-30	0-1	0.0-2.0
İ	İ	22-28	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
		28-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
44A:							l I
Newfolden	75	0-7	10-35	   6.6-7.3	   0	0	I   0
		7-16	:	6.6-7.3		0	0
		16-36	•	7.4-8.4		0-1	0.0-2.0
İ	ļ i	36-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
g=:1	10	0.10	10.05			_	
Smiley	12	0-12		6.6-7.8		0	0   0
		12-19	10-30   10-25	6.6-8.4 7.4-8.4			0.0-2.0
		42-80	•	7.4-8.4			0.0-2.0
				, J	~ 20		1 0.0.2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit		Cation- exchange capacity		Calcium  carbon-    ate	Gypsum	Salinity
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
:44A:					 		
Boash	8	0-9	30-40	6.6-7.8	0-10	0	0
İ		9-29	20-50	6.6-8.4	3-25	0	0
		29-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Linveldt	4	   0-9	   10-25	   6.6-7.8	   0	0	l I 0
HINGIGU	-	9-16	8.0-20	6.6-7.8		0	l 0
		16-29	1.0-5.0	7.4-8.4		0	. 0
		29-45	10-25	7.4-8.4	! ' !	0-1	0.0-2.0
	i	45-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
***************			10.25				
Hapludolls	1	0-9	10-35	6.6-7.8	: :	0	0   0
		9-60 	10-30 	7.4-8.4 	0-10   	U	
45A:					į į	_	
Northwood	75	0-9	120-180	5.1-7.8	! !	0	0
		9-14	5.0-20	5.6-7.8		0	0
		14-24 24-80	1.0-5.0	5.6-8.4 7.4-8.4	: :	0 0-1	0 0.0-2.0
		24-00	10-20	7.1-0.1	10-20	0-1	0.0-2.0
Hamre	10	0-13	120-180	5.1-7.8	0-5	0	0
		13-18	15-35	5.1-7.8	: :	0	0
		18-71	10-20	6.6-8.4	: :	0	0
		71-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Berner	5	0-28	120-180	   5.6-7.3	   0	0	0
	İ	28-31	5.0-20	6.1-7.3	j o j	0	0
		31-44	1.0-5.0	6.1-7.8	0-5	0	0
		44-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Kratka	5	   0-11	10-30	   5.6-7.8	I I I 0 I	0	l I 0
i	i	11-18	1.0-12	5.6-7.8	0-5	0	0
	İ	18-25	2.0-10	6.6-7.8	0-15	0	0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Strandquist	3	   0-10	   15-30	   6.6-8.4	   0-10	0	l I 0
beranaquise	, J	10-20	1.0-5.0	7.4-8.4		0	l 0
		20-60	10-20	7.4-8.4	! ' !	0-1	0.0-2.0
					<u> </u>	_	
Roliss	2	0-14	20-40	6.6-8.4	! ' !	0	0
		14-20	10-25   10-20	7.4-8.4 7.4-8.4		0-1 0-1	0.0-2.0
		20-80	10-20	/.4-0.4 	10-20   	0-1	0.0-2.0
46A:	İ		ļ		ļ i	j	
Pits	85			 			
Udipsamments	10	0-14	3.0-10	   6.6-7.3	   0	0	0
•	i		1.0-3.0		: :	0	0
İ	į	60-80	:			0	0
Radium	2	0.14		61.70	   0-5	0	   0
raurum	<b>4</b>		3.0-12   2.0-8.0	6.1-7.8	: :	0	l 0
			1.0-5.0			0	l 0
		43-80	!		: :	0	0
	İ				ļ į	_	
Maddock	1		•	6.6-7.8		0	0
			1.0-8.0		: :	0	0
		T#-00	1.0-5.0	0.0-5.4 	0-5	0	0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	reaction	: :	Gypsum	Salinity
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
46A:				1			
Marquette	1	0-6	2.0-12	   5.6-7.3	1 0 I	0	0
141 440000	-	6-9		5.6-7.3		0	0
i				6.6-8.4	: :	0	0
į	j		1.0-4.0			0	0
  andberg	1	0-12	   3.0-15	   5.6-7.8	   0-5	0	0
l	- 1		1.0-5.0			0	0
i			1.0-5.0			0	0
İ	i		1.0-5.0			0	0
  -   7A:				İ			
oppleton	75 l	0-6	3.0-12	   5.6-7.3	   0	0	0
İ	i	6-9	1.0-6.0	6.1-7.8	0-5	0	0
İ	İ	9-40	1.0-6.0	6.1-7.8	0-10	0	0
İ	İ	40-60	1.0-6.0	6.1-7.8	0-15	0	0
  aming	12	0-12	   5.0-15	   5.6-7.3	   0	0	0
			:	5.6-8.4	! !	0	0
i			1.0-8.0		: :	0	0
į	į		1.0-5.0			0	0
  arborg	5	0-12	   5.0-20	   6.1-7.8	   0	0	0
,				6.6-8.4		0	0
i			1.0-5.0	7.4-8.4	5-15	0	0
į	į		1.0-5.0			0	0
  amar	3	0-12	   5.0-25	   6.1-7.8	   0	0	0
				6.6-7.8	: :	0	0
i			1.0-5.0		: :	0	0
i	i		:	6.1-7.8	: :	0	0
į	į	47-60	1.0-5.0	7.4-8.4	0-2	0	0
  adium	2	0-14	   3.0-12	   6.1-7.8	   0-5	0 1	0
	_		2.0-8.0		: :	0	0
i	i		1.0-5.0		: :	0	0
į	į	43-80	1.0-5.0	7.4-8.4	5-15	0	0
  len	2	0-9	   5.0-15	   7.4-8.4	   5-25	0 1	0
	- 1	9-42		7.4-8.4			0.0-2.0
İ	i		1.0-5.0			0-1	0.0-2.0
   laddock	1	0-10	   3.0-15	   6 6_7 9	0-3	0	0
laddock			1.0-8.0				0
i	i		1.0-5.0				0
197.	ļ			 		ļ	
18A: Radium	75	0-14	3.0-12	   6.1-7.8	ı     0-5	0	0
į		14-33	2.0-8.0	6.6-8.4	2-10	0	0
İ	Ì	33-43	1.0-5.0	7.4-8.4	5-15	0	0
		43-80	1.0-5.0	7.4-8.4	5-15	0	0
  andberg	7	0-12	   3.0-15	   5.6-7.8	   0-5	0	0
i			1.0-5.0				0
i	i		1.0-5.0				0
į	į		1.0-5.0				0
 	5 İ	0-10	   5.0-15	   6.1-7.3	   0	0 1	0
			5.0-15			0	0
i			1.0-3.0			0	0
i i			1.0-2.0				0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	reaction	Calcium   carbon-    ate	Gypsum	Salinity
		In	  meq/100 g	   рн	Pct	Pct	mmhos/cm
			Inteq/100 g	1	100	100	
18A:	i		İ	İ	i i		İ
Flaming	4	0-12	5.0-15	5.6-7.3	j o j	0	0
I		12-17	3.0-15	5.6-8.4	0-3	0	0
I		17-27	1.0-8.0	5.6-8.4	0-5	0	0
		27-60	1.0-5.0	5.6-8.4	0-10	0	0
 	   3	0-12	   5.0-20	   6.1-7.8	   0	0 1	l I 0
Juliorg		12-41	3.0-10	6.6-8.4	0-1	0	l 0
		41-59	1.0-5.0	7.4-8.4	5-15	0	l 0
	i	59-80	1.0-5.0	7.4-8.4	0-2	0	0
Hangaard	3	0-10	10-25	6.6-7.8	0	0	0
		10-15	5.0-20	6.6-7.8	0-5	0	0
		15-80	1.0-5.0	7.4-8.4 	5-15   	0	0 
	2	0-12	5.0-25	6.1-7.8	0	0	0
j	İ	12-17	3.0-10	6.6-7.8	0-1	0	0
I		17-40	1.0-5.0	7.4-7.8	0-2	0	0
		40-47	5.0-15	6.1-7.8	0-2	0	0
		47-60	1.0-5.0	7.4-8.4	0-2	0	0
  ppleton	1 1	0-6	3.0-12	   5.6-7.3	I I I 0 I	0	l l 0
	i	6-9	1.0-6.0	6.1-7.8	0-5	0	0
i	i	9-40	1.0-6.0	6.1-7.8	0-10	0	0
		40-60	1.0-6.0	6.1-7.8	0-15	0	0
50A:				 			 
Reiner	70	0-7	5.0-25	   6.6-7.3	   0	0	l   0
i	i	7-17	15-30	6.6-7.3	0-10	0	0
	İ	17-35	10-25	7.4-8.4	15-25	0-1	0.0-2.0
		35-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
 	   12	0-12	   10-25	   6.6-7.8	   0-5	0 1	   0
smiley	12	12-19	10-25	6.6-8.4	0-3	0 1	l 0
		19-42	10-30	7.4-8.4	15-30	0-1	0.0-2.0
		42-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
İ	İ		į	į	į i	į	İ
Reiner, very cobbly	7	0-7	5.0-25	6.6-7.3	0	0	0
		7-17	15-30	6.6-7.3	0-10	0	0
	!	17-35	10-25	7.4-8.4	15-25	0-1	0.0-2.0
		35-80	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0 
inveldt	5	0-9	10-25	   6.6-7.8	0	0	0
İ	l Ì	9-16	8.0-20	6.6-7.8	0	0	0
		16-29	1.0-5.0	•		0	0
I		29-45	•	7.4-8.4			0.0-2.0
		45-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
ckvoll	   3	0-9	3.0-15	   6.1-7.3	   0	0	l I 0
· *==			•	6.1-7.3		0	l 0
			10-30	6.6-7.8		0	0
	i	32-80	:	7.4-8.4		0-1	0.0-2.0
		0.77	10.00				
[ratka	3		•	5.6-7.8	: :	0	0
			1.0-12	5.6-7.8 6.6-7.8		0	0   0
		25-80	:	7.4-8.4	: :	0-1	0.0-2.0
		25-00	1 10-20	1 1 - 2 - 0 - 3	1 -0-20	0-T	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of     map unit		Cation-  exchange  capacity	•	  Calcium   carbon-    ate	Gypsum	Salinity
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
7513							
I51A: Reiner	l 65 l	   0-7	3.0-15	   6.6-7.3	1 0 1	0	l   0
NCINCI	03	7-17	15-30	6.6-7.3	0-10	0	0
İ	i i	17-35	10-25	7.4-8.4	15-25	0-1	0.0-2.0
		35-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
G., 11			10.05			•	
Smiley	9	0-12   12-19		6.6-7.8		0	0   0
		19-42		7.4-8.4		0-1	0.0-2.0
		42-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
	İ		İ	ĺ	į į	j	
Reiner fine sandy							
loam	8	0-7 7-17	5.0-25   15-30	6.6-7.3		0	0 1 0
		17-35	10-25	7.4-8.4		0-1	0.0-2.0
		35-80	10-20	7.4-8.4		0-1	0.0-2.0
	İ		İ	j	į į	į	
Linveldt	7	0-9	10-25	6.6-7.8	1 1	0	0
		9-16	8.0-20	6.6-7.8		0	0
		16-29 29-45	1.0-5.0	7.4-8.4		0 0-1	0
		45-80	10-25	7.4-8.4		0-1	0.0-2.0 0.0-2.0
			-0 -0		-0 -0	V -	
Kratka	5	0-11	10-30	5.6-7.8	j 0 j	0	0
		11-18	1.0-12	5.6-7.8	0-5	0	0
		18-25	2.0-10	6.6-7.8	: :	0	0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Eckvoll	3	0-9	3.0-15	6.1-7.3	1 0 1	0	l l 0
İ	i i	9-25	1.0-10	6.1-7.3		0	0
		25-32	10-30	6.6-7.8		0	0
		32-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Reiner, very cobbly	   3	   0-7	   5.0-25	   6.6-7.3	I I	0	l   0
Reiner, Very Cobbry		7-17	15-30	6.6-7.3		0	0
İ	i	17-35	10-25	7.4-8.4		0-1	0.0-2.0
	İ	35-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
					!!!		
I52A: Reis	   55	   0-9	   30-65	   7.4-8.4	   5-20	0	0
Reib	33	9-17	25-65	7.4-8.4	15-25	0	0
	i	17-33	25-50	7.4-8.4		0-1	0.0-2.0
İ	i i	33-42	25-60	7.4-8.4	15-30	0-1	0.0-2.0
		42-60		7.4-8.4		0-1	0.0-2.0
		60-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Clearwater	   30	0-8	30-65	   6.6-7.8	0-5	0	l   0
Clearwater	30	8-35	•	7.4-8.4		0	0
	İ	35-80	20-50	7.4-8.4		0-1	0.0-2.0
	İ		ļ	ļ	ļ į	j	
Clearwater, very		00	] 20 65			0	^
cobbly	5	0-8 8-35	30-65 20-50	6.6-7.8   7.4-8.4		0	0 1 0
		35-80	20-50	7.4-8.4		0-1	0.0-2.0
	j			i			
Clearwater,	İ		]	l	ļ į	j	
depressional	3	0-8	20-60	6.6-7.8		0	0
		8-35	20-55	7.4-8.4		0	0
		35-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and   component name	Pct. of map unit	-	Cation-  exchange  capacity	   Soil  reaction   	  Calcium   carbon-    ate	Gypsum	   Salinity   
		In	meq/100 g	L pH	Pct	Pct	mmhos/cm
   I52A:			 	l I		 	 
Espelie	3	0-9	1 10-30	6.6-7.3	0	l   0	I 0
1		9-24	!	6.6-7.8		0	0
į		24-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
  Hattie	3	   0-8	   30-55	   7.4-8.4	   0-5	l I 0	   0
	-	8-22	!	7.4-8.4		0-1	0.0-2.0
į		22-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
  Wyandotte	1	   0-8	30-40	   7.4-7.8	   5-20	l I 0	   0
	_	8-15	!	7.9-8.4			0.0-2.0
i		15-34	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
į		34-60	20-50	7.4-8.4	10-30	0-1	0.0-2.0
   I53A:			 	 	 	 	 
Roliss	75	0-14	20-40	6.6-8.4	0-10	0	0
į	İ	14-20	10-25	7.4-8.4	5-15	0-1	0.0-2.0
		20-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Kratka	8	   0-11	10-30	   5.6-7.8	1 0	   0	I I 0
i	İ	11-18	1.0-12	5.6-7.8	0-5	0	0
İ	İ	18-25	2.0-10	6.6-7.8	0-15	0	0
ļ		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Roliss, very cobbly	7	0-14	20-40	   6.6-8.4	0-10	0	l   0
į	İ	14-20	10-25	7.4-8.4	5-15	0-1	0.0-2.0
		20-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Kittson	5	   0-10	10-35	   6.6-7.8	   0	   0	l   0
j	İ	10-17	10-25	6.6-7.8	0-5	0	0
I		17-36	10-25	7.4-8.4	15-25	0-1	0.0-2.0
ļ		36-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Roliss, depressional	3	0-14	15-50	6.6-8.4	0-10	0	0
I		14-20	10-25	7.4-8.4	5-15	0-1	0.0-2.0
ļ		20-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Smiley	2	0-12	10-25	   6.6-7.8	0-5	0	   0
I		12-19	10-30	6.6-8.4	0-10	0	0
ļ		19-42	:	7.4-8.4	: :	0-1	0.0-2.0
 		42-80 	10-20	7.4-8.4	10-20	0-1 	0.0-2.0
I54A:			İ	İ	i i		İ
Roliss, depressional	80		15-50	•			0
!			•	7.4-8.4			0.0-2.0
		20-80 	10-20	7.4-8.4 	10-20	0-1 	0.0-2.0 
Roliss	12		•	6.6-8.4			0
			10-25	7.4-8.4			0.0-2.0
ļ		20-80 	10-20	7.4-8.4 	10-20	0-1 	0.0-2.0
Hamre	5	0-13	120-180	5.1-7.8	0-5	0	   0
I			•	5.1-7.8			0
				6.6-8.4			0
		71-80 	10-20 	7.4-8.4	10-20   	0-1 	0.0-2.0
Kratka	3		•	5.6-7.8		0	0
I			•	5.6-7.8		0	0
			•	6.6-7.8			0
		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and   component name	Pct. of map unit	_	Cation- exchange capacity			Gypsum	   Salinity     
		In	meq/100 g	pH	Pct	Pct	mmhos/cm
   I55A:				 			 
Rosewood	75	0-8	   10-25	   7.4-8.4	   5-25	0	I I 0
1		8-18	2.0-10	7.4-8.4	15-40	0-1	0.0-2.0
j	İ	18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
**1	10	0.0	10.05	   7.4-8.4		•	   0
Ulen	10	0-9 9-42	10-25   5.0-15	7.4-8.4	5-25     15-40	0 0-1	0.0-2.0
i		42-60	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
į	İ		į	İ	į į		İ
Hamar	6	0-12	!	6.1-7.8		0	0
!		12-17	3.0-10	6.6-7.8	: :	0	0
		17-40 40-47	1.0-5.0   5.0-15	7.4-7.8 6.1-7.8	: :	0	0   0
· ·		47-60	1.0-5.0	7.4-8.4	: :	0	l 0
							İ
Rosewood,	İ		į	İ	į į		İ
depressional	3	0-8	10-40	7.4-8.4	5-25	0	0
!		8-18	2.0-10	7.4-8.4	15-40	0-1	0.0-2.0
		18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
Syrene	3	0-9	10-25	   7.4-8.4	5-20	0	l 0
i	i	9-17	5.0-25	7.9-8.4	15-35	0-1	0.0-2.0
İ	İ	17-27	1.0-5.0	7.4-8.4	10-30	0-1	0.0-2.0
!		27-60	1.0-5.0	7.4-8.4	5-15	0	0.0-2.0
  Karlsruhe	1 1	0-15	   10-25	   6.6-8.4	   5-20	0	l I 0
Rai i si une	- 1	15-30	3.0-15	7.4-8.4	: :	0-1	I 0
İ		30-60	1.0-5.0	7.4-8.4	10-25	0	0
		0.10					
Strathcona	1	0-10 10-17	10-30   5.0-15	7.4-8.4 7.4-8.4	5-15	0 0-1	0   0.0-2.0
· ·		17-28	2.0-8.0	7.4-8.4	: :	0-1	0.0-2.0
İ		28-80	10-20	7.4-8.4	: :	0-1	0.0-2.0
Thiefriver	1	0-12	10-30	7.4-8.4	: :		0
ļ		12-23 23-32	5.0-15   1.0-5.0	7.4-8.4 7.4-8.4	: :	0-1 0-1	0.0-2.0 0.0-2.0
i		32-80	20-50	7.4-8.4	: :	0-1	0.0-2.0
į	İ		į	İ	į į		İ
I57B:							
Sandberg	50	0-12	3.0-15	5.6-7.8	0-5     0-5	0	0   0
			1.0-5.0   1.0-5.0	6.1-7.8			I 0
i			1.0-5.0	•			0
j			į		į į		ĺ
Radium	25		3.0-12	:	: :		0
!			2.0-8.0	:	: :		0
			1.0-5.0	:	: :		0   0
ļ				i		-	İ
Sioux	8		10-25	!	: :		0
!			5.0-15	:	: :	0	0
		8-60	1.0-5.0	7.4-8.4	0-15	0	0 
Oylen	7	0-10	5.0-15	6.1-7.3	0	0	I   0
İ	i		5.0-15	•		0	0
į	İ	18-38	1.0-3.0	6.1-7.3	j 0 j	0	0
I		38-80	1.0-2.0	6.6-8.4	0-15	0	l 0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	:	Calcium  carbon-    ate	Gypsum     	Salinity
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
.57B <b>:</b>			 	 	 		
Flaming	5	0-12	5.0-15	5.6-7.3	i o i	0	0
i			:	5.6-8.4	0-3	0	0
į	İ	17-27	1.0-8.0	5.6-8.4	0-5	0	0
ļ		27-60	1.0-5.0	5.6-8.4	0-10	0	0
  Garborg	5	0-12	5.0-20	   6.1-7.8	   0	0	0
I		12-41	3.0-10	6.6-8.4	0-1	0	0
I		41-59	1.0-5.0	7.4-8.4	5-15	0	0
ļ		59-80	1.0-5.0	7.4-8.4	0-2	0	0
58A:				 			
Seelyeville	90	0-10	120-200	4.5-7.3	0	0	0
ļ		10-80	140-200	4.5-7.3	0	0	0
ا   Cathro	3	0-11	   120-180	4.5-7.8	0	   0	0
İ	ĺ	11-23	120-180	4.5-7.8	0	0	0
		23-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Dora	3	0-12	   120-180	   4.5-7.8	0	   0	0
I		12-32	120-180	4.5-7.8	0	0	0
I		32-36	20-60	6.1-8.4	0-10	0	0
ļ		36-60	20-55	6.1-8.4	0-20	0-1	0.0-2.0
ا   Markey	3	0-32	120-180	   4.5-7.8	0	0	0
ļ		32-60	1.0-5.0	5.6-8.4	0-5	0	0
  Berner	1	0-28	   120-180	   5.6-7.3	0	0	0
İ	İ	28-31	5.0-20	6.1-7.3	0	0	0
Į.		31-44	!	6.1-7.8	0-5	0	0
 		44-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
59A:				i İ	i i	i	
Smiley	65	0-12	10-25	6.6-7.8	0-5	0	0
		12-19	:	6.6-8.4	: :	0	0
!		19-42	!	7.4-8.4	15-30	0-1	0.0-2.0
		42-80	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0
Smiley, very cobbly	10	0-12	10-25	6.6-7.8	0-5	0	0
I		12-19	10-30	6.6-8.4	0-10	0	0
ļ		19-42	10-25	7.4-8.4	15-30	0-1	0.0-2.0
		42-80 	10-20 	7.4-8.4 	10-20   	0-1   	0.0-2.0
  Kratka	9	0-11	10-30	5.6-7.8	0	0	0
İ	İ	11-18	1.0-12	5.6-7.8	0-5	0	0
I		18-25	2.0-10	6.6-7.8	0-15	0	0
ļ		25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Roliss	5	0-14	20-40	   6.6-8.4	0-10	   0	0
į	İ	14-20	10-25	7.4-8.4			0.0-2.0
ļ		20-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Reiner	4	0-7	   5.0-25	   6.6-7.3	   0	   0	0
i		•		6.6-7.3		0	0
į	İ	17-35	10-25	7.4-8.4	15-25	0-1	0.0-2.0
į		35-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Linveldt	3	0-9	10-25	   6.6-7.8	0	   0	0
į	İ	•	8.0-20	•		0	0
į	İ	16-29	1.0-5.0	7.4-8.4	0-15	0	0
		•	•	7.4-8.4			0.0-2.0
1		45-80	10-20	7.4-8.4	1 10 00 1	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of   map unit	Depth	Cation-  exchange	   Soil  reaction	: :		   Salinity 
			capacity	 	ate		 
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
F03 -							
59A: Smiley, depressional	   3	0-12	1 15-50	   6.6-7.8	0-5	0	l I 0
		12-19	!	6.6-8.4	: :	0	0
	j i	19-42	10-25	7.4-8.4	15-30	0-1	0.0-2.0
		42-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Strandquist		   0-10	15-30	   6.6-8.4	   0-10	0	l I 0
	i	10-20	1.0-5.0	7.4-8.4		0	0
	j i	20-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
.03				 			
50A: Smiley, depressional	l 80	   0-12	15-50	   6.6-7.8	   0-5	0	l I 0
	j i	12-19	•	6.6-8.4	0-10	0	0
	j i	19-42	10-25	7.4-8.4	15-30	0-1	0.0-2.0
	ļ	42-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Smiley	   10	   0-12	   10-25	   6.6-7.8	   0-5	0	   0
JAME 1 C J	<u>-</u> 0	12-19	!	6.6-8.4		0	l 0
	i	19-42	!	7.4-8.4	: :	0-1	0.0-2.0
	j i	42-80	:	7.4-8.4	: :	0-1	0.0-2.0
lamre	   5	0-13	   120-180	   5.1-7.8	   0-5	0	   0
iaiii e	] 3	13-18	•	5.1-7.8		0	l 0
	i	18-71	:	6.6-8.4	: :	0	l 0
		71-80	!	7.4-8.4	: :	0-1	0.0-2.0
T						•	
Kratka	5	0-11 11-18	10-30   1.0-12	5.6-7.8   5.6-7.8		0	0   0
		18-25	2.0-10	6.6-7.8	: :	0	l 0
		25-80	10-20	7.4-8.4	: :	0-1	0.0-2.0
			İ		į į		
51A: Strandquist	   70	   0-10	   15-30	   6.6-8.4	   0-10	0	   0
scrandquisc	, , , , , , , , , , , , , , , , , , ,	10-20	1.0-5.0	7.4-8.4	: :	0	I 0
	İ	20-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Mavie	8	0-12   12-18	10-30   5.0-20	7.4-8.4 7.9-8.4	: :	0 0-1	0 0.0-2.0
		18-39	1.0-5.0	7.4-8.4	10-25	0-1	0.0-2.0
		39-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Roliss	7	0-14	20-40 10-25	6.6-8.4	0-10	0 0-1	0 0.0-2.0
	 	20-80	•	7.4-8.4			0.0-2.0
	i				-0 -0	_	
Kratka	5	0-11	•	5.6-7.8		0	0
			•	5.6-7.8		0	0
				6.6-7.8 7.4-8.4			0 0.0-2.0
	 	25-80 	10-20	/.4-0.4 	10-20   	0-1	0.0-2.0 
oxhome	4		10-25	•		0	0
			1.0-8.0	•		0	0
			1.0-5.0	•			0
İ		23-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
		1 23 00	i	i	1 1		I
Iangaard	       3		10-25	   6.6-7.8	   0	0	   0
Hangaard	 	0-10	į			0	   0   0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation- exchange capacity	   Soil  reaction   	  Calcium   carbon-    ate		   Salinity     
		In	meq/100 g	pН	Pct	Pct	mmhos/cm
I61A:				l I			 
Northwood	3	0-9	1 120-180	   5.1-7.8	I 0 I	0	I I 0
		9-14	5.0-20	5.6-7.8	0-5	0	0
İ	i i	14-24	1.0-5.0	5.6-8.4	0-15	0	0
		24-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
I62A:			 	 			 
Syrene	70	0-9	10-25	7.4-8.4	5-20	0	0
		9-17	5.0-25	7.9-8.4	15-35	0-1	0.0-2.0
		17-27	1.0-5.0	7.4-8.4	10-30	0-1	0.0-2.0
		27-60	1.0-5.0	7.4-8.4	5-15	0	0.0-2.0
Rosewood	11	0-8	10-25	   7.4-8.4	5-25	0	   0
j	İ	8-18	2.0-10	7.4-8.4	15-40	0-1	0.0-2.0
		18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
Hangaard	5	0-10	10-25	   6.6-7.8	   0	0	   0
i	i	10-15	5.0-20	6.6-7.8	0-5	0	0
	ļ	15-80	1.0-5.0	7.4-8.4	5-15	0	0
Karlsruhe	   4	0-15	   10-25	   6.6-8.4	   5-20	0	   0
	i	15-30	3.0-15	7.4-8.4	15-35	0-1	0
		30-60	1.0-5.0	7.4-8.4	10-25	0	0
Deerwood	   3	0-10	   100-180	   5.6-7.8	   0-5	0	   0
		10-12	5.0-20	6.1-8.4	0-15	0	0
	İ	12-60	1.0-5.0	7.4-8.4	10-20	0	0
Hamar	   3	0-12	   5.0-25	   6.1-7.8	   0	0	   0
		12-17	3.0-10	6.6-7.8	: :	0	0
İ	i i	17-40	1.0-5.0	7.4-7.8	0-2	0	0
		40-47	5.0-15	6.1-7.8	0-2	0	0
		47-60	1.0-5.0	7.4-8.4	0-2	0	0 
Strandquist	2	0-10	15-30	   6.6-8.4	0-10	0	   0
		10-20	1.0-5.0	7.4-8.4	5-15	0	0
		20-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Radium	1 1	0-14	3.0-12	   6.1-7.8	0-5	0	   0
		14-33	2.0-8.0	6.6-8.4	2-10	0	0
		33-43	1.0-5.0	7.4-8.4	: :	0	0
		43-80	1.0-5.0	7.4-8.4 	5-15   	0	0 
Wyandotte	1	0-8	30-40	7.4-7.8	5-20	0	0
	i i	8-15	10-20	7.9-8.4	15-25	0-1	0.0-2.0
		15-34	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
		34-60	20-50	7.4-8.4	10-30	0-1	0.0-2.0
I63A:				! 			 
Thiefriver	70	0-12	10-30	7.4-8.4	5-25	0	0
		12-23	•	7.4-8.4	: :	0-1	0.0-2.0
		23-32	!	7.4-8.4		0-1	0.0-2.0
	 	32-80	20-50 	7.4-8.4 	10-30   	0-1	0.0-2.0 
Espelie	10	0-9	10-30	6.6-7.3		0	0
		9-24	2.0-8.0	6.6-7.8		0	0
		24-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Foxlake	7	0-19	20-40	   6.6-7.8	0-5	0	   0
	l İ	19-38	20-55	7.4-8.4	0-5	0	0
		38-49	:	7.4-8.4		0-1	0.0-2.0
		49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	_	Cation-  exchange  capacity	Soil  reaction 	: :	Gypsum       	Salinity
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
63A:			 	! 			
Huot	5	0-14	5.0-25	7.4-8.4	5-25	0	0
			5.0-15	7.4-8.4		0-1	0.0-2.0
		26-34	!	7.4-8.4	5-20	0-1	0.0-2.0
		34-80	20-50 	7.4-8.4 	10-30   	0-1   	0.0-2.0
Clearwater,			į	İ	į į	į	
depressional	3	0-8	20-60	6.6-7.8	0-5	0	0
		8-35 35-80	20-55	7.4-8.4 7.4-8.4	3-25     10-30	0   0-1	0 0.0-2.0
		33-80	20-30	/.1-0.1 	10-30   	0-1	0.0-2.0
Rosewood	3	0-8	10-25	7.4-8.4	5-25	0	0
	İ	8-18	2.0-10	7.4-8.4	15-40	0-1	0.0-2.0
		18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
]len	1	0-9	10-25	   7.4-8.4	   5-25	   0	0
J		9-42	5.0-15		15-40		0.0-2.0
		42-60	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
 	1	0-8	   30-40	   7.4-7.8	   5-20	   0	0
wyandocce	_	8-15	10-20		15-25		0.0-2.0
		15-34	1.0-5.0	7.4-8.4			0.0-2.0
		34-60	20-50	7.4-8.4			0.0-2.0
į			İ		į į	İ	
64A: Ulen	70	0-9	   10-25	   7.4-8.4	   5-25	   0	0
01611	70	9-42	5.0-15	7.4-8.4	: :	0-1	0.0-2.0
		42-60	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
Rosewood	10	0-8	   10-25	   7.4-8.4	   5-25	   0	0
Rosewood	10	8-18	2.0-10	7.4-8.4	: :		0.0-2.0
		18-80	1.0-5.0	7.4-8.4	5-25		0.0-2.0
		0.10					
Flaming	8	12-17	5.0-15   3.0-15	5.6-7.3 5.6-8.4	: :	0   0	0
		17-27	!	5.6-8.4		0 1 0 1	0
		27-60		5.6-8.4		0	0
	_						
Karlsruhe	5	0-15	10-25	6.6-8.4   7.4-8.4	5-20     15-35	0   0-1	0
		30-60	!	7.4-8.4	: :	0 1	0
j			į	İ	j i	i	
Radium			3.0-12	•			0
			2.0-8.0	•			0
			1.0-5.0	•			0
		43-00	1.0-5.0	/.4-0.4 	5-15	0	U
Strathcona	2	0-10	10-30	7.4-8.4	5-15	0	0
			5.0-15	•			0.0-2.0
			2.0-8.0	•			0.0-2.0
		28-80	10-20	7.4-8.4 	10-20   	0-1   	0.0-2.0
Thiefriver	2	0-12	10-30	7.4-8.4	5-25	0	0
İ			5.0-15	•			0.0-2.0
			1.0-5.0	•			0.0-2.0
		32-80	20-50	7.4-8.4 	10-30	0-1	0.0-2.0
65A:				! 	; ;		
Ulen	70	0-9	5.0-15	7.4-8.4	5-25	0	0
			5.0-15	•			0.0-2.0
		42-60	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and   component name	Pct. of map unit	_	Cation-  exchange  capacity		: :	Gypsum	Salinity
		In	meq/100 g	рН	Pct	Pct	mmhos/cm
55A: Rosewood	10	0-8	   10-25	   7.4-8.4	   5-25	0	0
		8-18	2.0-10	7.4-8.4	15-40	0-1	0.0-2.0
į	İ	18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
 	   6	0 12	   5.0-15	   5.6-7.3	   0	0 i	0
Taming	0			5.6-8.4		0	0
i	i		1.0-8.0			0	0
į		27-60	1.0-5.0	5.6-8.4	0-10	0	0
 	   4	0-6	   3.0-12	   5.6-7.3	   0	0 1	0
oppiecon	-	6-9	1.0-6.0			0	0
i	i	9-40	1.0-6.0			0	0
į		40-60	1.0-6.0	6.1-7.8	0-15	0	0
   arlsruhe	   3	0-15	   10-25	   6.6-8.4	   5-20	0 i	0
arrar ane		15-30	3.0-15	7.4-8.4		0-1	0
İ		30-60		7.4-8.4	10-25	0	0
 		0.14					•
adium	3			6.1-7.8 6.6-8.4		0	0
				7.4-8.4	: :	0	0
ļ		43-80	:	7.4-8.4	5-15	0	0
 	   2	0-10	10-30	   7.4-8.4	   5-15	0 1	0
traciicolia	4		5.0-15	7.4-8.4		0-1	0.0-2.0
i			2.0-8.0	7.4-8.4		0-1	0.0-2.0
į		28-80	:	7.4-8.4		0-1	0.0-2.0
  Thiefriver	   2	0-12	   10-30	   7.4-8.4	   5-25	0 1	0
		12-23	:	7.4-8.4	15-40	0-1	0.0-2.0
	i	23-32	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
ļ		32-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
/allers	75	0-12	20-40	7.4-8.4	10-20	0	0
ļ		12-21		7.4-8.4	15-35	0-1	0.0-2.0
ļ		21-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
   allers, very cobbly	7	0-12	20-40	7.4-8.4	1 10-20	0	0
İ	İ	12-21	10-25	7.4-8.4	15-35	0-1	0.0-2.0
ļ		21-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
ا  amerly	   6	0-8	   15-35	   6.6-8.4	   0-25	0	0
- İ	i	8-25		7.4-8.4		0-1	0.0-2.0
ļ		25-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
 	   3	0-9	   10-25	   7.4-8.4	   5-15	0	0
			5.0-15	7.4-8.4			0.0-2.0
į	i i	22-28	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
ļ		28-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  avie		0-12	   10-30	   7.4-8.4	   5-15	0	0
			5.0-20	7.9-8.4			0.0-2.0
İ	i		1.0-5.0	7.4-8.4		0-1	0.0-2.0
i		39-80		7.4-8.4		0-1	0.0-2.0
!			1	ı	1		
 	1	0-14	   15-50	   6.6-8.4	0-10	n	n
   Roliss, depressional 	3     3	0-14 14-20		6.6-8.4 7.4-8.4		0   0-1	0 0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	Depth	Cation-  exchange  capacity	   Soil  reaction 	Calcium   carbon-    ate	Gypsum	   Salinity   
		In	meq/100 g	pH	Pct	Pct	mmhos/cm
I66A:	 		 	 	 		 
Strathcona	3	0-10	10-30	7.4-8.4	5-15	0	0
		10-17	5.0-15	7.4-8.4	15-30	0-1	0.0-2.0
		17-28	2.0-8.0	7.4-8.4	5-15	0-1	0.0-2.0
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
I67A:					i i		
Wheatville	70	0-9	10-30	7.4-8.4	5-25	0	0
		9-31	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
		31-80 	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Augsburg	13	0-11	1 10-30	   7.4-8.4	5-25	0	l 0
3		11-18	5.0-20	7.4-8.4	15-40	0-1	0.0-2.0
	İ	18-33	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
		33-60	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Glyndon	   8	   0-11	10-25	   7.4-8.4	   5-25	0	l I 0
		11-28	5.0-15	7.4-8.4	15-40	0-1	0.0-2.0
		28-60	3.0-15	7.4-8.4	10-30	0-1	0.0-2.0
Foxlake	   5	   0-19	20-40	   6.6-7.8	   0-5	0	   0
		19-38	20-55	7.4-8.4	0-5	0	l 0
İ	i	38-49	20-50	7.4-8.4	10-30	0-1	0.0-2.0
		49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Hilaire	   2	   0-10	   5.0-15	   6.6-7.3	   0-5	0	   0
	- 1	10-34	2.0-8.0	6.6-7.8	0-10	0	l 0
		34-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Ulen	   2	0-9	   5.0-15	   7.4-8.4	   5-25	0	   0
		9-42	5.0-15	7.4-8.4	1 15-40	0-1	0.0-2.0
	İ	42-60	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
I69A:				 			 
Wyandotte	l 65 l	   0-8	30-40	   7.4-7.8	5-20	0	l 0
		8-15	10-20	7.9-8.4	1 15-25	0-1	0.0-2.0
	i	15-34	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
		34-60	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Foxlake	   10	   0-19	20-40	   6.6-7.8	   0-5	0	   0
	-0	19-38	20-55	7.4-8.4	0-5	0	l 0
	i	38-49	20-50	7.4-8.4	10-30	0-1	0.0-2.0
		49-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Espelie	   8	   0-9	10-30	   6.6-7.3	   0	0	l I 0
	i	9-24	•	6.6-7.8		0	0
		24-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Clearwater,	 		 	 	 		 
depressional	5	0-8	20-60	6.6-7.8	0-5	0	0
=		8-35		7.4-8.4		0	0
	ļ	35-80	•	•	10-30		0.0-2.0
Thiefriver	   5	   0-12	10-30	   7.4-8.4	   5-25	0	   0
				7.4-8.4			0.0-2.0
			•	7.4-8.4			0.0-2.0
		32-80	•	•	10-30		0.0-2.0
Karlsruhe	   4	0-15	   10-25	   6.6-8.4	   5-20	0	   0
	-		•	7.4-8.4			l 0
			1.0-5.0	•			l 0
			1			-	

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of map unit	-	Cation-  exchange  capacity	:	  Calcium   carbon-    ate	Gypsum	Salinity
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
T.CO.							
I69A:   Syrene	3	l l 0-9	1 10-25	   7.4-8.4	5-20	0	l I 0
-2		9-17	5.0-25	7.9-8.4	15-35	0-1	0.0-2.0
İ	i i	17-27	1.0-5.0	7.4-8.4	10-30	0-1	0.0-2.0
		27-60	1.0-5.0	7.4-8.4	5-15	0	0.0-2.0
 			l I	l İ			
Strathcona	70	0-10	1 10-30	   7.4-8.4	5-15	0	0
	i i	10-17	5.0-15	7.4-8.4	15-30	0-1	0.0-2.0
İ	İ	17-28	2.0-8.0	7.4-8.4	5-15	0-1	0.0-2.0
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Kratka	   10	   0-11	10-30	   5.6-7.8	   0	0	l I 0
Redona	10	11-18	1.0-12	5.6-7.8	0-5	0	0
i	i	18-25	2.0-10	6.6-7.8	! ' !	0	0
İ	İ	25-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Dalian	   6	0.14	20-40	   6.6-8.4		0	   0
Roliss	6	0-14   14-20		7.4-8.4		0-1	0.0-2.0
		20-80	10-20	7.4-8.4		0-1	0.0-2.0
	i				i i		
Grimstad	5	0-9	10-25	7.4-8.4	5-15	0	0
		9-22	5.0-15	7.4-8.4	15-30	0-1	0.0-2.0
		22-28	1.0-5.0	7.4-8.4	5-20	0-1	0.0-2.0
		28-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Mavie	3	0-12	10-30	7.4-8.4	5-15	0	0
İ	İ	12-18	5.0-20	7.9-8.4	15-40	0-1	0.0-2.0
I		18-39	1.0-5.0	7.4-8.4	10-25	0-1	0.0-2.0
		39-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Rosewood	3	   0-8	10-25	   7.4-8.4	5-25	0	l I 0
i	i	8-18	2.0-10	7.4-8.4	15-40	0-1	0.0-2.0
İ		18-80	1.0-5.0	7.4-8.4	5-25	0-1	0.0-2.0
Strathcona,				 			
depressional	3	   0-10	1 10-45	   7.4-8.4	5-15	0	l l 0
		10-17	5.0-15	7.4-8.4	15-30	0-1	0.0-2.0
i	i i	17-28	2.0-8.0	7.4-8.4	5-15	0-1	0.0-2.0
		28-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Berner, ponded	45	0-28	120-180	   5.6-7.3	0 1	0	0
i	i		5.0-20	•		0	0
i	i i	31-44	1.0-5.0	6.1-7.8	0-5	0	0
		44-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Cathro, ponded	   45	   0-11	   120-180	   4.5-7.8	1 n 1	0	l   0
cacino, penaca			120-180			0	0
i	i		10-20	•		0-1	0.0-2.0
Hamre		0.12	1 120 100			0	
naIIII'e			120-180   15-35	•			0 1 0
			10-20	•			0.0-2.0
j	İ		į	İ	i i		
Kratka			10-30	•			0
			1.0-12	•			0
			2.0-10	•			0.0-2.0
		∠3-8U	10-20	1 /.4-8.4	1 10-20	0-1	0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of   map unit	_	   Cation-  exchange  capacity 			Gypsum	   Salinity     
		In	meq/100 g	рн	Pct	Pct	mmhos/cm
I71A:				 			
Northwood	2	   0-9	1 120-180	   5.1-7.8	I 0 I	0	l   0
1.02 011000	_	9-14	5.0-20	5.6-7.8		0	0
i	į	14-24	1.0-5.0	5.6-8.4	0-15	0	0
		24-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Roliss	2	   0-14	20-40	   6.6-8.4	   0-10	0	   0
İ	İ	14-20	10-25	7.4-8.4	5-15	0-1	0.0-2.0
		20-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Seelyeville, ponded	2	0-10	120-200	   4.5-7.3	0	0	0
		10-80	140-200	4.5-7.3	0	0	0
I72A:				 			 
Pelan	65	0-6	5.0-25	6.1-7.3		0	0
		6-9	1.0-10	6.1-7.3		0	0
		9-14	:	6.1-7.8		0	0
		14-20 20-60	1.0-5.0	7.4-8.4		0 0-1	0 0.0-2.0
		20-60	10-20	/.4-0.4 	10-20	0-1	0.0-2.0
Smiley	10	0-12	12-26	6.6-7.8		0	0
		12-19	:	6.6-8.4		0	0
		19-42	10-25	7.4-8.4		0-1	0.0-2.0
		42-80	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0 
Linveldt	8	0-9	10-25	6.6-7.8	j o j	0	0
	I	9-16	8.0-20	6.6-7.8		0	0
		16-29	1.0-5.0	7.4-8.4		0	0
		29-45	10-25	7.4-8.4		0-1	0.0-2.0
		45-80	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0 
Kratka	5	0-11	10-30	5.6-7.8	j 0 j	0	0
	I	11-18	1.0-12	5.6-7.8	0-5	0	0
		18-25	2.0-10	6.6-7.8	: :	0	0
		25-80	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0 
Strandquist	5	0-10	15-30	6.6-8.4	0-10	0	0
		10-20	1.0-5.0	7.4-8.4	: :	0	0
		20-60	10-20	7.4-8.4 	10-20   	0-1	0.0-2.0 
Reiner	4	0-7	5.0-25	6.6-7.3	0	0	0
İ	j	7-17	15-30	6.6-7.3	0-10	0	0
				7.4-8.4			0.0-2.0
		35-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
Eckvoll	3	0-9	3.0-15	6.1-7.3	0	0	0
İ	İ	9-25	1.0-10	6.1-7.3	0	0	0
	I		•	6.6-7.8		0	0
		32-80	10-20	7.4-8.4	10-20	0-1	0.0-2.0
I73A:				İ	i i		İ
Boash	75	0-9	•	6.6-7.8			0
		9-29	•	6.6-8.4			0
		29-80	10-20 	7.4-8.4 	10-20   	0-1	0.0-2.0 
Clearwater	8	0-8	30-65	6.6-7.8	0-5	0	0
İ	İ	8-35	:	7.4-8.4			0
		35-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
Roliss	8	0-14	20-40	   6.6-8.4	0-10	0	   0
			1				
İ		14-20 20-80	•	7.4-8.4 7.4-8.4			0.0-2.0

Table 25.--Chemical Properties of the Soils--Continued

Map symbol and component name	Pct. of   map unit	Depth	Cation- exchange capacity	Soil reaction	Calcium   carbon-    ate	Gypsum     	Salinity
	I	In	meq/100 g	рН	Pct	Pct	mmhos/cm
73A:			 		 	-	
Clearwater,	i		İ		i i	i	
depressional	5	0-8	20-60	6.6-7.8	0-5	o j	0
	İ	8-35	20-55	7.4-8.4	3-25	0	0
	ļ	35-80	20-50	7.4-8.4	10-30	0-1	0.0-2.0
  Kittson		0-10	   10-35	   6.6-7.8	   0	0 1	0
i	i	10-17	10-25	6.6-7.8		o i	0
i	i	17-36	10-25	7.4-8.4	15-25	0-1	0.0-2.0
	į	36-60	10-20	7.4-8.4	10-20	0-1	0.0-2.0
  Newfolden	2 1	0-7	10-35	   6.6-7.3	   0	0 I	0
	- 1	7-16	20-45	6.6-7.3		0 1	0
i	i	16-36	10-25	7.4-8.4	: :	0-1	0.0-2.0
	i	36-80	10-20	7.4-8.4	: :	0-1	0.0-2.0
74A:	ļ			 		ļ	
Urban land	65			 	 		
į	i		į		į i	į	
Endoaquents	35			 	 		
75A:					i i	i	
Radium	40	0-14	3.0-12	6.1-7.8	0-5	0	0
I	I	14-33	2.0-8.0	6.6-8.4	2-10	0	0
	I	33-43	1.0-5.0	7.4-8.4	: :	0	0
		43-80	1.0-5.0	7.4-8.4	5-15	0	0
Sandberg	20	0-12	3.0-15	5.6-7.8	0-5	0	0
	İ	12-19	1.0-5.0	6.1-7.8	0-5	0	0
I	I	19-29	1.0-5.0	7.4-8.4	10-25	0	0
	ļ	29-80	1.0-5.0	7.4-8.4	5-10	0	0
  Garborg	15	0-12	5.0-20	6.1-7.8	0	0	0
İ	İ	12-41	3.0-10	6.6-8.4	0-1	0	0
I	I	41-59	1.0-5.0	7.4-8.4	5-15	0	0
	ļ	59-80	1.0-5.0	7.4-8.4	0-2	0	0
  Oylen	10	0-10	   5.0-15	   6.1-7.3	   0	0	0
i	i	10-18	5.0-15	6.1-7.3	j o j	o j	0
i	i	18-38	1.0-3.0	6.1-7.3	: :	o j	0
	į	38-80	1.0-2.0	6.6-8.4	0-15	0	0
  Flaming	   5	0-12	   5.0-15	   5.6-7.3	   0	0	0
j			3.0-15			0	0
i	i	17-27	1.0-8.0	5.6-8.4	0-5	o j	0
į	į	27-60	1.0-5.0	5.6-8.4	0-10	0 j	0
  Karlsruhe	   3	0-15	   10-25	   6.6-8.4	   5-20	0 I	0
			3.0-15				0
	i		1.0-5.0				0
Vonlo		0 13	15 40				^
Venlo	3		15-40   1.0-5.0	6.1-7.3		0   0	0 0.0-2.0
		13-00	1.0-5.0	0.0-8.4 	0-10	۱ ا	0.0-2.0
Hangaard	2		10-25			0	0
	l		•	6.6-7.8			0
		15-80	1.0-5.0	7.4-8.4	5-15	0	0
  Sioux	2	0-5	10-25	   6.6-8.4	0-5	0	0
i	i		•	6.6-8.4			0
				7.4-8.4			

Table 25.--Chemical Properties of the Soils--Continued

			I				I
Map symbol and	Pct. of	Depth	Cation-	Soil	Calcium	Gypsum	Salinity
component name	map unit		exchange	reaction	carbon-		
			capacity		ate		
			L				l
		In	meq/100 g	pН	Pct	Pct	mmhos/cm
			[				
1-W.							
Miscellaneous water			1	l			
ж.							
Water			1				
	I i		I	I	l İ		I

## Table 26.--Soil Moisture, Ponding, and Flooding

(Depths are in feet. For top depth, bottom depth, and ponding depth, L indicates a low value, R indicates a representative value, and H indicates a high value. See text for further explanation of terms used in this table)

\*

B109A Bowstring and Fluvaquents soils, Des Moines, 0 to 2 percent slopes, frequently flooded

Bowstring (45 percent of the map unit)

	! .		!				ļ	]
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	ļ	L-R-H	L-R-H					L-R-H
	ļ					ļ <i>-</i>	ļ	
January	moist   wet		0.5-1.3-3.3 6.7-6.7-6.7			frequent	very long	0.0-0.3-0.5
February	wet   moist		11.3-2.1-4.1			   frequent	  very long	10.0-0.3-0.5
rebruary	wet		6.7-6.7-6.7			Treduenc	very long	10.0-0.3-0.5
March	wet   moist		0.0-0.0-2.5		very long	   frequent	  verv long	0.0-0.5-1.0
Hai Cii	wet		6.7-6.7-6.7		very rong	IIequenc	very rong	1
April	moist			very frequent	very long	frequent	very long	0.0-0.5-1.0
APILI	wet		6.7-6.7-6.7		very rong	IIequenc	very rong	
May	moist			very frequent	long	frequent	very long	0.0-0.5-1.0
2	wet		6.7-6.7-6.7		5			
June	moist		0.0-0.0-1.6		long	frequent	very long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7	i -		i -	i	i
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	frequent	brief	occasional	long	0.0-0.3-0.5
_	wet	0.2-0.8-2.5	6.7-6.7-6.7	j -		İ	į	İ
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	frequent	brief	occasional	long	0.0-0.3-0.5
	wet	0.8-1.6-3.3	6.7-6.7-6.7			ĺ	ĺ	İ
September	moist	0.0-0.0-0.0	0.3-1.1-3.0	frequent	brief	occasional	brief	0.0-0.3-0.5
	wet	0.3-1.1-3.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.2-0.5-2.5	frequent	long	occasional	brief	0.0-0.3-0.5
	wet	0.2-0.5-2.5	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.0-0.3-1.6	rare	long	occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
December	moist		0.5-0.8-2.5			frequent	very long	0.0-0.3-0.5
	wet	0.5-0.8-2.5	6.7-6.7-6.7					
							1	

Fluvaquents (40 percent of the map unit)

			ļ				!	!
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	!	L-R-H	L-R-H			!	!	L-R-H
	!					ļ	ļ <i>-</i>	ļ
_	!						! .	
January	moist		0.5-1.3-2.5			frequent	very long	0.0-0.5-1.0
	wet		6.7-6.7-6.7				!	
February	moist		0.8-1.6-3.0			frequent	very long	0.0-0.5-1.0
** 1-	wet	•	6.7-6.7-6.7				 	
March	moist		0.0-0.0-1.6		very long	frequent	very long	0.0-0.5-1.0
2	wet   moist		6.7-6.7-6.7	  very frequent	1		 	  0.0-0.7-1.3
April	moist   wet		6.7-6.7		very long	frequent	very long	10.0-0.7-1.3
	wet   moist		•	  very frequent	1	   frequent	  very long	  0.0-0.7-1.3
May	moist   wet		6.7-6.7-6.7		long	Trequenc	very long	1
June	wet   moist		0.7-0.7-0.7		long	frequent	  verv long	0.0-0.5-1.0
oune	wet		6.7-6.7-6.7		Tong	IIequenc	very rong	1
July	moist		0.5-1.3-2.5		brief	  occasional	l long	0.0-0.5-1.0
July	wet		6.7-6.7-6.7		21101		l rong	1
August	moist		0.8-1.6-3.0		brief	loccasional	   brief	0.0-0.5-1.0
nagabe	wet		6.7-6.7-6.7	_	21101		21101	1
September			0.5-1.3-2.5		long	occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7		5			
October	moist		0.3-0.8-2.0		long	occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7			İ	i	İ
November	moist	0.0-0.0-0.0	0.2-0.5-1.6	rare	long	occasional	long	0.0-0.5-1.0
	wet	0.2-0.5-1.6	6.7-6.7-6.7		J	i	i	İ
December	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		frequent	very long	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7	j		İ	į	İ
	İ		İ			İ	İ	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B109A (continued)

Hapludalfs (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - н 	L - R - H   		 	 	 	L - R - H 
January	     moist	    0.0-0.0-0.0	 	none	i I	l none	j I	i I
•	wet	4.1-5.4-6.7	6.7-6.7-6.7		i	İ	i	i
February	moist	0.0-0.0-0.0	4.9-6.2-6.7	none	j	none	j	i
i	wet	4.9-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	4.1-5.4-6.7	rare	brief	none	j	i
	wet	4.1-5.4-6.7	6.7-6.7-6.7				1	l
April	moist	0.0-0.0-0.0	2.1-2.5-3.8	rare	brief	none		
	wet	2.1-2.5-3.8	6.7-6.7-6.7				[	
May	moist	0.0-0.0-0.0	2.5-2.8-4.6	rare	brief	none		
	wet	2.5-2.8-4.6	6.7-6.7-6.7		1		1	
June	moist		2.8-3.1-5.7	rare	very brief	none		
	wet		6.7-6.7-6.7					
July	moist		3.3-5.7-6.7	very rare	very brief	none		
	wet		6.7-6.7-6.7					
August	moist		4.9-6.7-6.7	very rare	very brief	none		ļ
	wet		6.7-6.7-6.7			!	!	!
September	moist		3.6-4.9-6.7	rare	very brief	none	!	!
_	wet		6.7-6.7-6.7			<u> </u>	!	!
October	moist		3.0-4.6-6.7	rare	very brief	none	!	!
_	wet		6.7-6.7-6.7		!			!
November	moist		2.3-3.3-4.9	rare	very brief	none		
	wet		6.7-6.7-6.7					
December	moist   wet		3.3-4.1-5.7   6.7-6.7-6.7	none		none		

Seelyeville (5 percent of the map unit)

	I	I	I	I I		I	I	ı
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H 	L - R - H 	 		 	 	L - R - H
January	moist		0.5-1.0-3.3	none		none	ļ	0.0-0.0-0.0
oanuar y	wet	0.5-1.0-3.3				l none	 	1
February	moist	10.0-0.0-0.0	•			none	¦	0.0-0.0-0.0
1 021 441 7	wet	1.3-1.6-4.1					i	
March	moist	0.0-0.0-0.0			very long	none	i	0.0-0.0-0.0
	wet	0.0-0.0-2.5				İ	i	
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	very frequent	very long	none	i	0.0-0.0-0.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7	i i i		İ	İ	İ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	very frequent	long	none	j	0.0-0.0-0.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7				1	
June	moist	0.0-0.0-0.0	0.0-0.3-1.6	frequent	long	none		0.0-0.0-0.0
	wet	0.0-0.3-1.6	6.7-6.7-6.7				[	
July	moist	0.0-0.0-0.0			brief	none		0.0-0.0-0.0
	wet	0.0-0.8-2.5						
August	moist	0.0-0.0-0.0			brief	none		0.0-0.0-0.0
	wet	0.5-1.6-3.3						
September		0.0-0.0-0.0			brief	none	!	0.0-0.0-0.0
	wet	0.3-1.1-3.0				!	!	!
October	moist	0.0-0.0-0.0			brief	none	!	0.0-0.0-0.0
_	wet	0.0-0.5-2.5					!	ļ
November	moist	0.0-0.0-0.0			long	none	!	0.0-0.0-0.0
	wet	0.0-0.3-1.6						
December	moist	0.0-0.0-0.0	•			none		0.0-0.0-0.0
	wet	0.5-0.8-2.5	6.7-6.7-6.7			1	!	1
	l	l		I		l	l	·

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B109A (continued)

Water (5 percent of the map unit) (not applicable)

 ${\tt B200A}\,{\tt \,\,\,}$  Garnes fine sandy loam, Des Moines, 0 to 3 percent slopes

Garnes (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	  0.0-0.0-0.0	  4.1-5.4-6.7	none	i I	none	j I	j I
	wet	4.1-5.4-6.7	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	4.9-5.9-6.7	none		none	j	i
	wet	4.9-5.9-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none		
	wet	3.3-4.9-6.7	6.7-6.7-6.7					
-	moist		1.8-2.5-4.1	none		none		
			6.7-6.7-6.7					
May	moist		2.3-2.8-4.9	none		none		
			6.7-6.7-6.7			ļ		
June	moist		2.6-3.1-5.7	none	!	none	!	!
	wet		6.7-6.7-6.7		!	!	!	!
July	moist		3.3-5.7-6.7	none	ļ	none	!	!
			6.7-6.7-6.7		!	!	!	!
August			4.9-6.7-6.7	none	ļ	none	!	!
	wet		6.7-6.7-6.7			!		
September	moist		3.6-4.9-6.7	none		none		ļ
			6.7-6.7-6.7			!	!	ļ
October	moist     wet		3.0-4.3-5.7	none		none		ļ
November	wet     moist		6.7-6.7-6.7		 		 	!
November			2.3-3.3-4.9	none		none		ļ
December	wet   moist		6.7-6.7-6.7   3.3-4.6-5.7	none	[ [	l none	[ 	 
December	moist     wet		3.3-4.6-5.7   6.7-6.7-6.7	none	<del></del>	none		

Chilgren (13 percent of the map unit)

Month	  Moisture	   Top	Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H		į		į	L-R-H
		 	 	 	ļ ————————————————————————————————————	-	.	 
January	moist		1.6-3.0-4.1	•	i	none	j	i
	wet		6.7-6.7-6.7	•				
February	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7	•				
March	moist		1.3-2.1-3.3	•		none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5	•		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
June	moist		0.7-1.3-4.1			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9	•		none		
	wet		6.7-6.7-6.7					
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7					
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
	wet	1.3-1.6-4.1	6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
December	moist		1.3-2.1-3.8	•		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B200A (continued)

Eckvoll (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	   	none	i I	j I
	wet	4.6-5.4-6.7	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none		none		i
	wet	4.9-5.7-6.7	6.7-6.7-6.7			1	l	l
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
			6.7-6.7-6.7			[		
April			2.1-2.5-4.6	none		none		
	wet		6.7-6.7-6.7					
May			2.6-3.1-5.2	none		none		ļ
			6.7-6.7-6.7					
June			2.6-3.8-6.2	none		none	ļ	!
_			6.7-6.7-6.7			!	<u> </u>	!
July			3.8-4.9-6.7	none		none		
			6.7-6.7-6.7					
August			5.2-6.7-6.7	none		none		
September			6.7-6.7-6.7   3.8-4.1-6.7		l I			
september			3.8-4.1-6.7   6.7-6.7-6.7	none	 	none		
October	wet     moist		3.3-3.8-6.7	none	l I	l none	l I	l I
occoper			6.7-6.7-6.7	none	 	l none	 	 
November			2.5-3.3-5.6	none	l	l none	l 	 
CILLOCI			6.7-6.7-6.7	110110	! 		i I	İ
December			3.8-4.1-6.2	none		l none	! 	i i
	wet		6.7-6.7-6.7		! 		i	i

Garnes, very stony (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H		!	ļ.	ļ.	L - R - H
January	moist	0.0-0.0-0.0	  4.1-5.4-6.7	none	 	none	 	 
_	wet	4.1-5.4-6.7	6.7-6.7-6.7		İ	į	į	İ
February	moist	0.0-0.0-0.0	4.9-5.9-6.7	none	j	none	j	j
	wet	4.9-5.9-6.7	6.7-6.7-6.7		Ì	ĺ	ĺ	ĺ
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none	j	i
	wet	3.3-4.9-6.7	6.7-6.7-6.7					
pril   mo:	moist	0.0-0.0-0.0	1.8-2.5-4.1	none		none		
	wet	1.8-2.5-4.1	6.7-6.7-6.7			[		
May	moist	0.0-0.0-0.0	2.3-2.8-4.9	none		none		
			6.7-6.7-6.7			[		
June			2.6-3.1-5.7	none		none		
	wet	2.6-3.1-5.7	6.7-6.7-6.7					
July			3.3-5.7-6.7	none		none		
			6.7-6.7-6.7					
August			4.9-6.7-6.7	none		none		
			6.7-6.7-6.7					
September			3.6-4.9-6.7	none		none		
			6.7-6.7-6.7					
October			3.0-4.3-5.7	none	!	none	!	!
			6.7-6.7-6.7		!	!	!	!
November			2.3-3.3-4.9	none	!	none	!	!
_			6.7-6.7-6.7		!	!	!	!
December			3.3-4.6-5.7	none	ļ	none	!	!
	wet	3.3-4.6-5.7	6.7-6.7-6.7			1	l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B200A (continued)

Grygla (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 			L - R - H
January	moist   wet		1.6-3.0-4.1   6.7-6.7-6.7	none		none		
February	wet   moist		6.7-6.7-6.7    2.5-3.3-4.9		1	l mone		 
rebruary			2.5-3.3-4.9   6.7-6.7-6.7			none		
March			0.7-0.7-0.7   1.6-2.1-4.1		I I	l none		l I
March	moist   wet		1.0-2.1-4.1   6.7-6.7-6.7			i none		 
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5			occasional	   brief	  0.0-0.3-0.
APILI	wet		6.7-6.7-6.7			l	Dilei	0 • 0 = 0 • 5 = 0 • ·
May	moist		0.5-0.8-3.3		i	loccasional	  verv brief	  0.0-0.3-0.
2	wet		6.7-6.7-6.7		İ			
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		i	i	1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	i	none	i	i
_	wet	1.6-3.3-4.9	6.7-6.7-6.7		į	i	İ	İ
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none	i	none	j	i
	wet	2.5-4.1-5.7	6.7-6.7-6.7		İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		i
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
						.		

Pelan (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H		<u> </u>	ļ		L-R-H
January	moist	0.0-0.0-0.0	4.8-5.4-6.7	none	i	none		
	wet	4.8-5.4-6.7	6.7-6.7-6.7					
ebruary	moist	0.0-0.0-0.0	5.2-5.7-6.7	none		none		
	wet	5.2-5.7-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
April			1.3-2.5-4.9	none		none		
			6.7-6.7-6.7					
ay			2.0-3.0-5.6	none		none		
			6.7-6.7-6.7					
June			2.6-3.6-6.2	none		none		
			6.7-6.7-6.7					
July			3.9-5.4-6.7	none		none		
			6.7-6.7-6.7					
August			5.4-6.7-6.7	none		none		
			6.7-6.7-6.7					
September			4.1-4.6-6.7	none		none		ļ
			6.7-6.7-6.7					
October			3.6-3.9-6.7	none	!	none		!
			6.7-6.7-6.7					
Tovember			2.5-3.3-5.7	none	!	none		!
			6.7-6.7-6.7		!	<u> </u>	l	!
December			3.9-4.6-6.2	none	!	none		!
	wet	3.9-4.6-6.2	6.7-6.7-6.7					

## Table 26.--Soil Moisture, Ponding, and Flooding--Continued

 ${\tt B201A}$  Chilgren fine sandy loam, Des Moines, 0 to 2 percent slopes

Chilgren (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 		 	L - R - H
January	moist	0 - 0 - 0 - 0 - 0	 	none	   	none	i i	
2	wet		6.7-6.7-6.7		i		i	
February	moist		2.5-3.3-4.9	none	i	none		
_	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	į	
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none	i	none	j	
	wet	1.3-2.1-3.3	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May			0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			1		
July			1.6-3.0-4.9	none	ļ	none		
			6.7-6.7-6.7			!		
August			2.5-3.8-5.7	none		none		
			6.7-6.7-6.7					
September			2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
October			6.7-6.7-6.7   1.3-1.6-4.1		 		 	  0.0-0.3-0.5
october			1.3-1.6-4.1   6.7-6.7-6.7	none	 	rare	very brier	0.0-0.3-0.5
November			0.7-0.7-0.7   0.8-1.3-3.3	none	l I	  occasional	   brief	  0.0-0.3-0.5
NO VEHIDEL	moist		0.8-1.3-3.3   6.7-6.7-6.7	none	 	loccasional	l prier	0.0-0.3-0.5
December	wet     moist		1.3-2.1-3.8	none	! !	l none		
Secember			1.3-2.1-3.6   6.7-6.7-6.7	110116	 	l mone	 	_ <b></b>
	#60	1.5-2.1-3.0	3 . 7 - 3 . 7 - 3 . 7		!	!	!	

Garnes (9 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   			 -	 	L - R - H 
January	   moist	0.0-0.0-0.0	  4.1-5.4-6.7	none		none	 	 
	wet		6.7-6.7-6.7					
February	moist		4.9-5.9-6.7	none		none		
	wet		6.7-6.7-6.7			!	!	!
March	moist		3.3-4.9-6.7	none		none	!	!
			6.7-6.7-6.7			ļ	!	!
April	moist		1.8-2.5-4.1	none		none		ļ
			6.7-6.7-6.7					
May	moist		2.3-2.8-4.9	none		none		
June	wet   moist		6.7-6.7-6.7   2.6-3.1-5.7				l I	
June	moist   wet		2.6-3.1-5.7   6.7-6.7-6.7	none		none	 	 
July			3.3-5.7-6.7	none		l none	 	! !
July			6.7-6.7-6.7	none		none	 	
August	moist		4.9-6.7-6.7	none		none	! !	! !
	wet		6.7-6.7-6.7	110110			İ	i
September			3.6-4.9-6.7	none		none	i	i
			6.7-6.7-6.7				i	i
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none	i	i
	wet	3.0-4.3-5.7	6.7-6.7-6.7			i	į	İ
November	moist	0.0-0.0-0.0	2.3-3.3-4.9	none		none	j	j
	wet	2.3-3.3-4.9	6.7-6.7-6.7			İ	ĺ	ĺ
December	moist	0.0-0.0-0.0	3.3-4.6-5.7	none		none	j	
	wet	3.3-4.6-5.7	6.7-6.7-6.7			1	I	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B201A (continued)

Grygla (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 			L - R - H
January	moist   wet		1.6-3.0-4.1   6.7-6.7-6.7	none		none		
February	wet   moist		6.7-6.7-6.7    2.5-3.3-4.9		1	l mone		 
rebruary			2.5-3.3-4.9   6.7-6.7-6.7			none		
March			0.7-0.7-0.7   1.6-2.1-4.1		I I	l none		l I
March	moist   wet		1.0-2.1-4.1   6.7-6.7-6.7			i none		 
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5			occasional	   brief	  0.0-0.3-0.
APILI	wet		6.7-6.7-6.7			l	Dilei	0 • 0 = 0 • 5 = 0 • ·
May	moist		0.5-0.8-3.3		i	loccasional	  verv brief	  0.0-0.3-0.
2	wet		6.7-6.7-6.7		İ			
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		i	i	1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	i	none	i	i
_	wet	1.6-3.3-4.9	6.7-6.7-6.7		į	i	İ	İ
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none	i	none	j	i
	wet	2.5-4.1-5.7	6.7-6.7-6.7		İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		i
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
						.		

Grygla, depressional (5 percent of the map unit)

	1	I	I I					
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.0-1.6-3.0	none		    occasional	long	0.0-0.3-0.
January	wet		6.7-6.7-6.7			l	l	0.0-0.5-0.
February	moist		11.6-3.0-3.6			loccasional	long	0.0-0.3-0.
	wet		6.7-6.7-6.7		i	1		İ
March	moist		0.0-0.0-2.0		i	occasional	long	0.0-0.3-0.
	wet	0.0-0.0-2.0	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.0-1.0	none	i	frequent	long	0.0-0.3-0.
	wet	0.0-0.0-1.0	6.7-6.7-6.7					I
May	moist	0.0-0.0-0.0	0.0-0.0-2.0	none		frequent	long	0.0-0.3-0.
	wet	0.0-0.0-2.0	6.7-6.7-6.7					[
June	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July	moist		0.7-1.6-3.3			rare	very brief	0.0-0.2-0.
	wet		6.7-6.7-6.7					
August	moist		1.6-2.5-3.6			rare	very brief	0.0-0.2-0.
	wet		6.7-6.7-6.7		!	ļ	!	
September			1.0-1.6-3.0	none		rare	very brief	0.0-0.2-0.
	wet		6.7-6.7-6.7		!		!	!
October	moist		0.7-1.3-2.6			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!		!	!
November	moist		0.3-0.8-1.6			occasional	long	0.0-0.3-0.
	wet		6.7-6.7-6.7		!		!	<u> </u>
December	moist		0.7-1.3-2.3	none	ļ	occasional	long	0.0-0.3-0.
	wet	0.7-1.3-2.3	6.7-6.7-6.7		!	ļ.	!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B201A (continued)

Hamre (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H				[	L - R - H
						-	ļ	
January	   moist	0.0-0.0-0.0	  0.8-1.6-3.3	none	 	  occasional	   long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	i	i	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7				ļ	
July			0.2-0.8-2.5		!	rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		<u> </u>	!	!	!
August			0.8-1.6-3.3		ļ	rare	very brief	0.0-0.3-0.5
_			6.7-6.7-6.7					
September			0.5-1.3-3.0			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7			!	!	
October			0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7				1	
November			0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
Do wombo			6.7-6.7-6.7		 		1 1	
December			0.5-1.3-2.5	none	i	occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7		!	!	!	!

Pelan (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	[ [	 	L - R - H 
	moist		    4.8-5.4-6.7					
January	moist   wet		4.8-3.4-6.7   6.7-6.7-6.7	none		none		
ebruary	wet   moist		6.7-6.7-6.7   5.2-5.7-6.7		l I	none	I I	l I
ebruary	wet		6.7-6.7-6.7		 	l none	 	 
March	moist		3.3-4.6-6.7		 	l none	! 	 
101 011	wet		6.7-6.7-6.7	110110	i	110110	! 	i
April	moist		1.3-2.5-4.9	none		none	i	i
·	wet		6.7-6.7-6.7		i		i	i
ſay	moist		2.0-3.0-5.6		i	none	i	i
_	wet	2.0-3.0-5.6	6.7-6.7-6.7		į	İ	İ	İ
June	moist	0.0-0.0-0.0	2.6-3.6-6.2	none	i	none	i	i
	wet	2.6-3.6-6.2	6.7-6.7-6.7		İ	İ	İ	İ
July	moist	0.0-0.0-0.0	3.9-5.4-6.7	none	j	none		i
	wet	3.9-5.4-6.7	6.7-6.7-6.7		[			
August	moist	0.0-0.0-0.0	5.4-6.7-6.7	none		none		
	wet	5.4-6.7-6.7	6.7-6.7-6.7		[			
September	moist		4.1-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
october	moist		3.6-3.9-6.7			none		
	wet		6.7-6.7-6.7					
ovember	moist		2.5-3.3-5.7	none		none		
	wet		6.7-6.7-6.7		ļ		!	!
December	moist		3.9-4.6-6.2	none	!	none	ļ	!
	wet	3.9-4.6-6.2	6.7-6.7-6.7		!	ļ	!	!
	l						l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B202A Cathro muck, depressional, Des Moines, 0 to 1 percent slopes

Cathro (80 percent of the map unit)

	I		I		I			I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H 		 	 	 	L - R - H 
January	   moist	    0.0-0.0-0.0	    0.5-1.3-3.3	none	i I	  occasional	long	    0.0-0.3-0.5
_	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	i	İ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	i	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7		ĺ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.0-1.6		!	occasional	brief	0.0-0.5-1.0
_	wet		6.7-6.7-6.7				!	
July	moist		0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
a 1 1	wet		6.7-6.7-6.7				1 1	  0.0-0.3-0.5
September	moist   wet		0.3-1.1-3.0 6.7-6.7-6.7			rare	brief	10.0-0.3-0.5
October	wet   moist		0.2-0.5-2.5		 	  occasional	   brief	I  0.0-0.3-0.5
OCCODEL	wet		6.7-6.7-6.7		 	l	l prier	0.0-0.5-0.5
November	moist		0.0-0.3-1.6		 	occasional	llong	ı  0.0-0.3-0.5
rombot	wet		6.7-6.7-6.7		İ			
December	moist		0.5-0.8-2.5			occasional	long	  0.0-0.3-0.5
	wet		6.7-6.7-6.7		İ			 
					i	i	i	i

Hamre (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H		Į.	ļ	ļ.	L - R - H
						_	.	
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.3	none		  occasional	l long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	i	i	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7		İ	İ	Ì	ĺ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7				1	
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May			0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June	moist		0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
	wet	0.0-0.5-1.6	6.7-6.7-6.7					
July			0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
August			0.8-1.6-3.3			rare	very brief	0.0-0.3-0.
	•		6.7-6.7-6.7					
September	moist		0.5-1.3-3.0	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7		!			
October			0.3-0.8-2.5	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7		!		!	!
November			0.0-0.3-1.6	none	ļ	occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7		!		!	!
December	moist		0.5-1.3-2.5	none	ļ	occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B202A (continued)

Chilgren (3 percent of the map unit)

Mambh	   Madestone		l Dotton	ml	=1		Damaiana	 
Month	Moisture   status		Bottom	Flooding	Flooding duration	Ponding	Ponding   duration	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - к - н	L - к - н		l i	 	 	L - к - н
		l ————————————————————————————————————			l	l ————————————————————————————————————		
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	l none	 	l 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		<u> </u> 	i	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none	j	
	wet	1.3-2.1-3.3	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.3-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Northwood (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L-R-H   		 	 _	 .	L - R - H 
January	moist	0.0-0.0-0.0	  0.8-1.6-3.3	none	i 	occasional	long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7		[			[
March	moist		0.0-0.0-2.5			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					[
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
May	moist		0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7				1	
July			0.2-0.8-2.5		ļ	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	!	!	!
August			0.8-1.6-3.3		ļ	rare	very brief	0.0-0.3-0.5
_			6.7-6.7-6.7				!	
September			0.5-1.3-3.0			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
October			0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7		!			
November			0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
Da samba	wet		6.7-6.7-6.7		1		1 1	
December	!		0.5-1.3-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7		1	1	1	
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B202A (continued)

Berner (2 percent of the map unit)

Month	  Moisture	l Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
11011011	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L-R-H
	İ	 			 	.	İ	 
					ļ.		İ	!
January	moist		0.5-1.3-3.3		!	occasional	long	0.0-0.3-0.
			6.7-6.7-6.7		<u> </u>	!	!	!
February	moist		1.3-2.1-4.1		!	occasional	long	0.0-0.3-0.
			6.7-6.7-6.7		<u> </u>	!	!	!
March	moist		0.0-0.0-2.5			occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3			frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
June	moist		0.0-0.0-1.6			occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
July	moist		0.2-0.8-2.5			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	0.3-1.1-3.0	none		rare	brief	0.0-0.3-0.
	wet	0.3-1.1-3.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.2-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.2-0.5-2.5	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.0-0.3-1.6	none		occasional	long	0.0-0.3-0.
	wet	0.0-0.3-1.6	6.7-6.7-6.7					l
December	moist	0.0-0.0-0.0	0.5-0.8-2.5	none		occasional	long	0.0-0.3-0.
	wet	0.5-0.8-2.5	6.7-6.7-6.7					l
	1				1	1		I

Grygla (2 percent of the map unit)

	I	I	I		ı	ı	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		
Uanuary	wet		1.0-3.0-4.1   6.7-6.7-6.7		 	l none		 
February	moist		2.5-3.3-4.9		 	l none		 
r cor dar y	wet		6.7-6.7-6.7		i	110110	i	i
March	moist		11.6-2.1-4.1		i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		į	İ	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		[			
July	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	!		!
November	moist		0.8-1.6-3.3		ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		1.3-2.1-3.8	none	!	none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!		!	!
	l					-l	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B202A (continued)

Seelyeville (2 percent of the map unit)

		l					I	l
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
							ļ	
January	   moist	  0.0-0.0-0.0	  0.5-1.0-3.3	none	 	  occasional	   long	  0.0-0.3-0.5
	wet		6.7-6.7-6.7		i		i	i
February	moist		1.3-1.6-4.1		i	occasional	long	0.0-0.3-0.5
_	wet	1.3-1.6-4.1	6.7-6.7-6.7		į	İ	i	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none	j	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.3-1.6			frequent	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.0-0.8-2.5			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				ļ	
August	moist		0.5-1.6-3.3			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!		!	!
September			0.3-1.1-3.0		ļ	occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!	!	
October	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				! .	
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7				!	
December	moist		0.5-0.8-2.5	none		occasional	long	0.0-0.3-0.5
	wet	10.5-0.8-2.5	6.7-6.7-6.7		1			
	I	l	l ————		l ————		l	l ————

B203A Northwood muck, depressional, Des Moines, 0 to 1 percent slopes

Northwood (75 percent of the map unit)

Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - н 	L - R - H   		 	 _	 .	L - R - H 
January	moist	0.0-0.0-0.0	  0.8-1.6-3.3	none	 	occasional	long	  0.0-0.5-1.0
_	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	i	i	į
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	j	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7			1		1
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7			1		
May	moist		0.0-0.0-1.3	none	!	frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
T-1-	wet		6.7-6.7-6.7					
July	moist   wet		0.2-0.8-2.5   6.7-6.7-6.7	none		rare	very brier	0.0-0.3-0.5
A.co.cat	wet   moist		0.7-6.7-6.7   0.8-1.6-3.3	none	 	   rare	 	  0.0-0.3-0.5
August	wet		0.8-1.8-3.3   6.7-6.7-6.7	none	 	rare	very prier	1
September	wet   moist		0.7-0.7-0.7   0.5-1.3-3.0	none	! !	  occasional	   brief	  0.0-0.3-0.5
pepcember	wet		6.7-6.7-6.7	none	 	l	Dilei	0.0-0.5-0.5
October	moist		0.3-0.8-2.5	none	i	loccasional	brief	  0.0-0.5-1.0
	wet		6.7-6.7-6.7		i			 
November	moist		0.0-0.3-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		i	i	i	i
December	moist	0.0-0.0-0.0	0.5-1.3-2.5	none	i	occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7		İ	İ	İ	İ
	I i	I	i i		I	I	1	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B203A (continued

Hamre (10 percent of the map unit)

Month	  Moisture	l Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L - R - H
	i	İ	İ		i	.i	.i	i
T	   moist		  0.8-1.6-3.3	none		  occasional	l long	  0.0-0.5-1.
January	moist   wet		0.8-1.6-3.3  6.7-6.7-6.7			loccasionai	l rong	10.0-0.5-1.
February	wet   moist		1.6-2.5-4.1		l I	  occasional	   long	  0.0-0.5-1.
rebruary	wet		6.7-6.7-6.7		 	Occasional	i Iong	10.0-0.5-1.
March	wet   moist		0.0-0.0-2.5		 	  occasional	   long	  0.0-0.5-1.
1101 011	wet		6.7-6.7-6.7		! I		l	0.0 0.5 1.
April	moist		0.0-0.0-0.8			frequent	long	  0.0-0.5-1.
	wet		6.7-6.7-6.7		i		5	i
May	moist		0.0-0.0-1.3		i	frequent	long	0.0-0.5-1.
_	wet	0.0-0.0-1.3	6.7-6.7-6.7		į	į -	į	İ
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none	j	frequent	brief	0.0-0.5-1.
	wet	0.0-0.5-1.6	6.7-6.7-6.7		ĺ	İ	Ì	ĺ
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none	i	rare	very brief	0.0-0.3-0.
	wet	0.2-0.8-2.5	6.7-6.7-6.7					l
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist		0.5-1.3-3.0			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
October	moist		0.3-0.8-2.5			occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
November	moist		0.0-0.3-1.6		ļ	occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7			[		
December	moist		0.5-1.3-2.5	none	ļ	occasional	long	0.0-0.5-1.
	wet	0.5-1.3-2.5	6.7-6.7-6.7		!	ļ.	!	!

Grygla (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H		  -	į	į	L-R-H
January		0.0-0.0-0.0		none		none		
			6.7-6.7-6.7					
February			2.5-3.3-4.9			none		
			6.7-6.7-6.7					
March			1.6-2.1-4.1			none		
			6.7-6.7-6.7					
April			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	ı	İ	İ		I	I	1	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B203A (continued

Berner (5 percent of the map unit)

I		Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
į	status	depth	depth	frequency	duration	frequency	duration	depth
 l_		L - R - H	L-R-H		 	 _	 	L - R - H 
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	 	  occasional	l long	  0.0-0.3-0.!
1	wet	0.5-1.3-3.3	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.
1			6.7-6.7-6.7					
March			0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
- 1			6.7-6.7-6.7					
April   moist			0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
- 1			6.7-6.7-6.7					
May			0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
- 1			6.7-6.7-6.7					
June			0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.0
!			6.7-6.7-6.7		!	!		
July			0.2-0.8-2.5	none	ļ	rare	very brief	0.0-0.3-0.
!			6.7-6.7-6.7			!		
August			0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
!			6.7-6.7-6.7			ļ		
September			0.3-1.1-3.0	none		rare	brief	0.0-0.3-0.
October			6.7-6.7-6.7			  occasional	   brief	  0.0-0.3-0.!
October			0.2-0.5-2.5   6.7-6.7-6.7	none		occasional	prier	0 • 0 - 0 • 3 - 0 • :
November			0.7-6.7-6.7   0.0-0.3-1.6	none	 	  occasional	1 1	  0.0-0.3-0.!
November			0.0-0.3-1.6   6.7-6.7-6.7	none	 	l	long	0 • 0 = 0 • 3 = 0 • :
December			0.7-0.7-0.7   0.5-0.8-2.5	none	 	  occasional	llong	  0.0-0.3-0.!
December			0.3-0.8-2.5   6.7-6.7-6.7	none	 	loccasional	l rond	0 • 0 = 0 • 3 = 0 • :

Chilgren (3 percent of the map unit)

January   m	wet   noist   wet   noist   wet	1.6-3.0-4.1 0.0-0.0-0.0 2.5-3.3-4.9	depth     L - R - H   	none	duration 	frequency   	duration   	depth   L - R - H 
February   m	wet   noist   wet   noist   wet	0.0-0.0-0.0 1.6-3.0-4.1 0.0-0.0-0.0 2.5-3.3-4.9	    1.6-3.0-4.1  6.7-6.7-6.7  2.5-3.3-4.9		 	 	 	L - R - H 
February   m	wet   noist   wet   noist   wet	1.6-3.0-4.1 0.0-0.0-0.0 2.5-3.3-4.9	6.7-6.7-6.7   2.5-3.3-4.9		   	none	   	
February   m	wet   noist   wet   noist   wet	1.6-3.0-4.1 0.0-0.0-0.0 2.5-3.3-4.9	6.7-6.7-6.7   2.5-3.3-4.9		 	none		
February   m	moist   wet   moist   wet	0.0-0.0-0.0	2.5-3.3-4.9	none	ļ.		1	1
March   m	wet   moist   wet	2.5-3.3-4.9		none		1	I	i
March   m	moist   wet		6.7-6.7-6.7			none		
į,	wet	0.0-0.0-0.0						1
			1.3-2.1-3.3	none		none		
Annil   m		1.3-2.1-3.3	6.7-6.7-6.7					1
white   m	noist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					ĺ
May   m	noist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					ĺ
June   m			0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
'			6.7-6.7-6.7					İ
July   m			1.6-3.0-4.9	none		none		
'			6.7-6.7-6.7					
August   m			2.5-3.8-5.7	none		none		
			6.7-6.7-6.7					İ
September   m			2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			1		
'			1.3-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			1		
			0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7			1		
!			1.3-2.1-3.8	none		none		
'	wet	1.3-2.1-3.8	6.7-6.7-6.7					l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B204A Roliss loam, Des Moines, 0 to 2 percent slopes

Roliss (75 percent of the map unit)

Month	Moisture	goT	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L - R - H	L-R-H		Ì	i	İ	L - R - н
	İ		I			_ [	ļ	İ
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	   none		 
2	wet	1.6-3.0-4.1					i	i
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
_	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	į	İ	İ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none	i	none	j	j
	wet	1.3-2.1-3.3	6.7-6.7-6.7		İ	j	İ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist	0.0-0.0-0.0		none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
July	moist		1.6-3.0-4.9			none		
			6.7-6.7-6.7			ļ	!	!
August	moist		2.5-3.8-5.7	none		none	ļ	ļ
	wet	2.5-3.8-5.7				ļ		
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
0 - 1 - 1	wet   moist		6.7-6.7-6.7				 	
October		0.0-0.0-0.0	1.3-1.6-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.3-0.5
November	wet   moist		0.8-1.3-3.3		l i	  occasional	   brief	  0.0-0.3-0.5
Noveliber	moist   wet		6.7-6.7-6.7		 	l	l prier	1
December	wet   moist		1.3-2.1-3.8		l 	l none		! !
pecemper	wet	1.3-2.1-3.8		110116	I	l mone	-3-	 
	l wer	11.5-2.1-3.0	0 . 7 - 0 . 7 - 0 . 7		l	!	!	!

Grygla (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H					L - R - H
January	moist	0.0-0.0-0.0		none		none		
			6.7-6.7-6.7					
February			2.5-3.3-4.9	none		none		
	•		6.7-6.7-6.7					
March			1.6-2.1-4.1	none		none		
			6.7-6.7-6.7					
April			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7					
May	•		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July			1.6-3.3-4.9	none		none		
			6.7-6.7-6.7					
August			2.5-4.1-5.7	none		none		
			6.7-6.7-6.7					
September	•		1.6-3.3-4.9	none		none		
			6.7-6.7-6.7					
October			1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	•		6.7-6.7-6.7					
November	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		[			
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B204A (continued)

Chilgren (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		 
İ	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7			1		
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none		
	wet	1.3-2.1-3.3	6.7-6.7-6.7			1		
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May			0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	!	!	
July			1.6-3.0-4.9	none	ļ	none	ļ	
			6.7-6.7-6.7			ļ	!	
August			2.5-3.8-5.7	none		none	ļ	
			6.7-6.7-6.7			ļ		
September			2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
October	wet     moist		6.7-6.7-6.7   1.3-1.6-4.1		 			  0.0-0.3-0.5
october			1.3-1.6-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.3-0.5
November			0.7-6.7-6.7   0.8-1.3-3.3	none	l i	  occasional	   brief	  0.0-0.3-0.5
loveliber			0.8-1.3-3.3   6.7-6.7-6.7	none	 	Occasional	l prier	0.0-0.3-0.5 
December			1.3-2.1-3.8	none	l 	l none		! !
,ecember			1.3-2.1-3.8   6.7-6.7-6.7	110116	 	l mone	-3-	 

Garnes (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	 	none	j I	i I
-	wet	4.1-5.4-6.7	6.7-6.7-6.7		İ	İ	i	İ
February	moist	0.0-0.0-0.0	4.9-5.9-6.7	none	i	none	j	i
	wet	4.9-5.9-6.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none		
	wet	3.3-4.9-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.8-2.5-4.1	none		none		
			6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.3-2.8-4.9	none		none		
	wet		6.7-6.7-6.7					
June	moist		2.6-3.1-5.7	none		none		
			6.7-6.7-6.7					
July			3.3-5.7-6.7	none		none		
	wet		6.7-6.7-6.7					
August			4.9-6.7-6.7	none	ļ	none	!	
			6.7-6.7-6.7			<u> </u>	!	
September			3.6-4.9-6.7	none		none		ļ
			6.7-6.7-6.7					
October			3.0-4.3-5.7	none		none		
**			6.7-6.7-6.7					
November	: :		2.3-3.3-4.9	none		none		
December	wet     moist		6.7-6.7-6.7   3.3-4.6-5.7		 		I	l I
December			3.3-4.6-5.7   6.7-6.7-6.7	none	<del></del>	none		 
	wet	3.3-4.6-5.7	[0.7-0.7-6.7]		!	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B204A (continued)

Roliss, depressional (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L-R-H		 	1		L - R - H 
January	moist	0.0-0.0-0.0	0.8-1.6-3.0	none	   	occasional	long	0.0-0.5-1.0
Juliuur 7			6.7-6.7-6.7	110110	i i		l	0.0 0.5 1.0 
February			1.6-2.5-3.3	none	i	occasional	long	  0.0-0.5-1.0
•			6.7-6.7-6.7		i			
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7		İ	į	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	ļ	frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7		1			
June			0.2-0.8-2.5	none		occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.8-1.6-3.0	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!			
August			1.6-2.1-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			ļ	!	
September			0.8-1.6-3.0	none		rare	brief	0.0-0.3-0.5
0 1 1			6.7-6.7-6.7			  occasional	1 1 1 1 1 1	
October			0.5-1.3-2.5   6.7-6.7-6.7	none		loccasional	brief	0.0-0.3-0.5
November			0.7-6.7-6.7   0.2-0.5-1.6	none	I	  occasional	llong	  0.0-0.5-1.0
MOVERIDEL			6.7-6.7-6.7	none	 	l	l 10119	0.0-0.5-1.0
December			0.7-0.7-0.7   0.3-0.8-2.0	none		  occasional	llong	I  0.0-0.5-1.0
Secember	moist   wet	0.0-0.0-0.0		110116	I	l	l rond	0.0-0.5-1.0

Hamre (2 percent of the map unit)

Month	  Moisture	Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
January	moist		0.8-1.6-3.3			occasional	long	0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
March	moist		0.0-0.0-2.5			occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.
	wet	0.0-0.5-1.6	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.
	wet	0.2-0.8-2.5	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	0.5-1.3-3.0	none		occasional	brief	0.0-0.3-0.
	wet	0.5-1.3-3.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.3-0.8-2.5	none		occasional	brief	0.0-0.5-1.
	wet	0.3-0.8-2.5	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.0-0.3-1.6	none		occasional	long	0.0-0.5-1.
	wet	0.0-0.3-1.6	6.7-6.7-6.7					l
December	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		occasional	long	0.0-0.5-1.
	wet	0.5-1.3-2.5	6.7-6.7-6.7		İ	İ	İ	İ
	İ		ii		İ	İ	İ	İ

## Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B205A Berner muck, depressional, Des Moines, 0 to 1 percent slopes

Berner (80 percent of the map unit)

					1	1	1	
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	i I	L-R-H	L-R-H			İ -I	İ I	L - R - н 
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		  occasional	long	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	i	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7		[			
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		1			
- 1	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.0-1.6			occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7		!	!		!
July	moist		0.2-0.8-2.5		ļ	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!		
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!	!	
September	!		0.3-1.1-3.0			rare	brief	0.0-0.3-0.5
0 -1 -1	wet		6.7-6.7-6.7			1	1 1 1 1 1 1	
October	moist   wet		0.2-0.5-2.5 6.7-6.7-6.7			occasional	brief	0.0-0.3-0.5
			0.0-0.3-1.6		 	  occasional	1	
November	moist   wet		0.0-0.3-1.6   6.7-6.7-6.7			occasional	long	0.0-0.3-0.5
December	wet   moist		0.5-0.8-2.5		1	  occasional	   long	  0.0-0.3-0.5
December	moist   wet	•	6.7-6.7-6.7		<del></del>	l	l rong	0.0-0.3-0.5
	l wer	10.5-0.8-2.5	0 . / - 0 . / - 0 . /		[ [	I I	I I	l I
		l ————				-	·	l ————

Northwood (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H		İ		İ	L-R-H
			 		l I	.  		
January	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	i	occasional	long	0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
September	moist		0.5-1.3-3.0			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist		0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
December	moist		0.5-1.3-2.5			occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7			1	1	
	l							

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B205A (continued)

Grygla (5 percent of the map unit)

		ļ					ļ .	
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	!	L-R-H	L-R-H			!	!	L-R-H
	!	ļ				ļ	ļ	
_								
January	moist		1.6-3.0-4.1			none		
_	wet		6.7-6.7-6.7			!	!	
February	moist		2.5-3.3-4.9			none	!	
	wet		6.7-6.7-6.7			!	!	
March	moist		1.6-2.1-4.1			none	!	
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				!	
May	moist		0.5-0.8-3.3			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1			rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
July	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7				[	
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7				[	
	l						l	

Cathro (3 percent of the map unit)

	ļ .							
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 _	 .	L - R - H 
January	   moist	  0.0-0.0-0.0	  0.5-1.3-3.3	none	 	  occasional	l long	  0.0-0.3-0.
	wet	0.5-1.3-3.3	6.7-6.7-6.7			1		
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.
	wet	0.0-0.0-0.8	6.7-6.7-6.7		1			
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist		0.0-0.0-1.6			occasional	brief	0.0-0.5-1.
			6.7-6.7-6.7					
July	moist		0.2-0.8-2.5			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
September			0.3-1.1-3.0			rare	brief	0.0-0.3-0.
	•		6.7-6.7-6.7		ļ	!		
October	moist		0.2-0.5-2.5		ļ	occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7		!	!	ļ.	!
November	!		0.0-0.3-1.6		ļ	occasional	long	0.0-0.3-0.
	wet		6.7-6.7-6.7		!	1		
December	!		0.5-0.8-2.5	none	!	occasional	long	0.0-0.3-0.
	wet	0.5-0.8-2.5	6.7-6.7-6.7		ļ	!	ļ.	!
						_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B205A (continued)

Hamre (3 percent of the map unit)

Manth			Datte	 	=====================================			 
Month	Moisture   status	-	Bottom	Flooding	Flooding   duration	Ponding	Ponding   duration	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	1	L - к - н	L - к - н		l i	 	 	L - к - н
	I	l ————————————————————————————————————			l			
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.3	none	 	  occasional	l l long	  0.0-0.5-1.0
_	wet	0.8-1.6-3.3	6.7-6.7-6.7		<u> </u> 	i	i	İ
February	moist		1.6-2.5-4.1			occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7		İ	į	į	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7			ĺ	ĺ	
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7			1		
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7			[		
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
	wet	0.0-0.5-1.6	6.7-6.7-6.7			[		
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.5
	wet	0.2-0.8-2.5	6.7-6.7-6.7			[		
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist		0.5-1.3-3.0			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			[		
October	moist		0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7				[	
December	moist		0.5-1.3-2.5			occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7			[	[	

## Seelyeville (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 	L - R - H 
January	moist	0.0-0.0-0.0	    0.5-1.0-3.3	none	j 	  occasional	long	    0.0-0.3-0.5
_	wet	0.5-1.0-3.3	6.7-6.7-6.7		İ	i	i	İ
February	moist	0.0-0.0-0.0	1.3-1.6-4.1	none	j	occasional	long	0.0-0.3-0.5
	wet	1.3-1.6-4.1	6.7-6.7-6.7		ĺ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7					
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7		[	ļ		
May			0.0-0.0-1.3		ļ	frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7		!	ļ		!
June			0.0-0.3-1.6		ļ	frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7			!		
July			0.0-0.8-2.5			occasional	very brief	0.0-0.3-0.5
3			6.7-6.7-6.7   0.5-1.6-3.3					
August			0.5-1.6-3.3   6.7-6.7-6.7			occasional	very brier	0.0-0.3-0.5
September			0.7-0.7-0.7   0.3-1.1-3.0		l I	  occasional	lucry brief	  0.0-0.3-0.5
september			0.3-1.1-3.0   6.7-6.7-6.7		 	l	very prier	0 • 0 = 0 • 3 = 0 • •
October			0.7-0.7-0.7   0.0-0.5-2.5		 	  occasional	   brief	  0.0-0.3-0.5
occoper			6.7-6.7-6.7		 	l	Dilei	0.0-0.5-0.
November			0.0-0.3-1.6		i	loccasional	long	  0.0-0.3-0.5
			6.7-6.7-6.7		i		5	
December			0.5-0.8-2.5		i	occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7		İ	i	i	İ
	i i		i i		i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B206A Hamre muck, depressional, Des Moines, 0 to 1 percent slopes

Hamre (80 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 	 _	 .	L - R - H 
January	   moist		  0.8-1.6-3.3	none	 	  occasional	l long	  0.0-0.5-1.0
	wet		6.7-6.7-6.7		!		!	!
February	moist		1.6-2.5-4.1		ļ	occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7					
March	moist		0.0-0.0-2.5			occasional	long	0.0-0.5-1.0
	wet   moist		6.7-6.7-6.7   0.0-0.0-0.8		 		   long	  0.0-0.5-1.0
April	moist   wet		0.0-0.0-0.8   6.7-6.7-6.7		 	frequent	l rong	10.0-0.5-1.0
ſav	wet   moist		0.7-0.7-0.7   0.0-0.0-1.3		! 	   frequent	llong	I  0.0-0.5-1.0
2	wet		6.7-6.7-6.7		i		5	 
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none	i	frequent	brief	0.0-0.5-1.0
	wet	0.0-0.5-1.6	6.7-6.7-6.7		İ	İ	İ	İ
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.5
	wet	0.2-0.8-2.5	6.7-6.7-6.7					
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ		
September			0.5-1.3-3.0		ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!		
october	moist   wet		0.3-0.8-2.5   6.7-6.7-6.7			occasional	brief	0.0-0.5-1.0
Jovember	wet   moist		0.7-6.7-6.7   0.0-0.3-1.6		l i	  occasional	   long	  0.0-0.5-1.0
Ovember	wet		0.0-0.3-1.6   6.7-6.7-6.7		 	Occasional	l 1011g	0.0-0.5-1.0
ecember	moist		0.7-0.7-0.7   0.5-1.3-2.5		! 	  occasional	llong	I  0.0-0.5-1.0
	wet		6.7-6.7-6.7		İ			 
					İ	i	i	i

Chilgren (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H		]			L - R - H
			 			_		
January	moist		1.6-3.0-4.1	none		none		
		1.6-3.0-4.1						
February			2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March			1.3-2.1-3.3	none		none		
			6.7-6.7-6.7					
April			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7					
May	•		0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7					
June	moist		0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July			1.6-3.0-4.9	none		none		
			6.7-6.7-6.7					
August			2.5-3.8-5.7	none		none		
	•		6.7-6.7-6.7					
September	moist		2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
October			1.3-1.6-4.1	none		rare	very brief	0.0-0.3-0.
	•		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B206A (continued)

Northwood (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H		 			L - R - H
	 				 			<del></del>
January	moist		0.8-1.6-3.3			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
February	moist		1.6-2.5-4.1			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
March	moist		0.0-0.0-2.5			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
September			0.5-1.3-3.0			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist		0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		!		!	l
December	moist		0.5-1.3-2.5	none	ļ	occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					

Cathro (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
I	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 	 _	 .	L - R - H 
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	 	  occasional	long	  0.0-0.3-0.
İ	wet	0.5-1.3-3.3	6.7-6.7-6.7			İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
March			0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.
			6.7-6.7-6.7					
April			0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.
			6.7-6.7-6.7					
May			0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
			6.7-6.7-6.7					
June			0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.
			6.7-6.7-6.7			ļ		
July			0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7			ļ		!
August			0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
_			6.7-6.7-6.7			!		
September			0.3-1.1-3.0	none		rare	brief	0.0-0.3-0.
			6.7-6.7-6.7			!	!	
October			0.2-0.5-2.5	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7				1	
November			0.0-0.3-1.6	none		occasional	long	0.0-0.3-0.
) 			6.7-6.7-6.7		 		1	1000000
December			0.5-0.8-2.5	none		occasional	long	0.0-0.3-0.
	wet	0.5-0.8-2.5	6.7-6.7-6.7		I	1	1	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued Grygla (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H		[	ļ.	1	L - R - H
					ļ	ļ	ļ	ļ
January	   moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	 	l I
	wet		6.7-6.7-6.7		i	i	i	i
February	moist		2.5-3.3-4.9	none	i	none	i	i
_	wet	2.5-3.3-4.9	6.7-6.7-6.7		į	İ	İ	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	j	none	j	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	j	occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	i	occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Roliss (2 percent of the map unit)

B206A (continued)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 	 	 .	L - R - H
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	i 	i
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	j	none	j	j
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	į	İ	İ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none	j	none	j	j
	wet	1.3-2.1-3.3	6.7-6.7-6.7		ĺ	į	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					1
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.
	wet	0.3-0.8-3.3	6.7-6.7-6.7		[			[
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.
	wet	0.7-1.3-4.1	6.7-6.7-6.7					
July			1.6-3.0-4.9	none		none		
			6.7-6.7-6.7					
August			2.5-3.8-5.7	none		none		
			6.7-6.7-6.7					
September			2.0-3.3-4.9	none	ļ	rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7		!	ļ		
October			1.3-1.6-4.1	none	ļ	rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7				!	
November			0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0
			6.7-6.7-6.7				!	
December			1.3-2.1-3.8	none		none	ļ	
	wet	1.3-2.1-3.8	6.7-6.7-6.7				1	

## Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B207A Pelan sandy loam, Des Moines, 0 to 3 percent slopes

Pelan (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	4 9-5 4-6 7	none		none	   	i 
U alluar y	wet	4.8-5.4-6.7		none	 	l Hone	 	 
February	moist		5.2-5.7-6.7	none	! 	l none	! 	! 
1 022 441 7		5.2-5.7-6.7			i İ		i	i
March	moist		3.3-4.6-6.7		i	l none	i	i
	wet		6.7-6.7-6.7		i	İ	i	i
April	moist		1.3-2.5-4.9		i	none	i	i
-	wet	1.3-2.5-4.9	6.7-6.7-6.7		į	İ	i	i
May	moist	0.0-0.0-0.0	2.0-3.0-5.6	none	i	none	j	j
	wet	2.0-3.0-5.6	6.7-6.7-6.7		İ	İ	İ	İ
June	moist	0.0-0.0-0.0	2.6-3.6-6.2	none		none	j	j
	wet	2.6-3.6-6.2	6.7-6.7-6.7				I	I
July	moist	0.0-0.0-0.0	3.9-5.4-6.7	none		none		
	wet	3.9-5.4-6.7	6.7-6.7-6.7				[	[
August	moist	0.0-0.0-0.0	5.4-6.7-6.7	none		none		
	wet	5.4-6.7-6.7					1	[
September	moist	0.0-0.0-0.0		none		none		
	wet		6.7-6.7-6.7					
October	moist		3.6-3.9-6.7			none		
	wet		6.7-6.7-6.7					
November	moist		2.5-3.3-5.7			none		
	wet	2.5-3.3-5.7			<u> </u>		[	[
December	moist		3.9-4.6-6.2	none	ļ	none	!	!
	wet	3.9-4.6-6.2	6.7-6.7-6.7					

Chilgren (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
January	moist		1.6-3.0-4.1	none		none		
			6.7-6.7-6.7		ļ			
February	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7		ļ			
March	moist		1.3-2.1-3.3			none		ļ
	wet		6.7-6.7-6.7		ļ			
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ			
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ			
June	moist		0.7-1.3-4.1			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	!	!	!
July	moist		1.6-3.0-4.9			none		ļ
	wet		6.7-6.7-6.7		!	!	!	!
August	moist		2.5-3.8-5.7		ļ	none	ļ	!
	wet		6.7-6.7-6.7		!	!		!
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7					
October	moist		1.3-1.6-4.1		!	rare	very brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3		!	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!		!	!
December	moist		1.3-2.1-3.8	none	!	none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!		!	!
			l				l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B207A (continued)

Garnes (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	 	none	 	none	i	i 
-	wet	4.1-5.4-6.7	6.7-6.7-6.7		İ	İ	i	i
February	moist	0.0-0.0-0.0	4.9-5.9-6.7	none	i	none	j	j
	wet	4.9-5.9-6.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none		
	wet	3.3-4.9-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.8-2.5-4.1	none		none		
	wet	1.8-2.5-4.1	6.7-6.7-6.7					
May	moist		2.3-2.8-4.9	none		none		
	wet		6.7-6.7-6.7					
June	moist		2.6-3.1-5.7	none		none		
			6.7-6.7-6.7					
July	moist		3.3-5.7-6.7	none		none		
			6.7-6.7-6.7		!	!	!	!
August	moist		4.9-6.7-6.7	none	ļ	none	!	!
	wet		6.7-6.7-6.7			!	!	!
September			3.6-4.9-6.7	none		none		
	wet		6.7-6.7-6.7					
October	moist		3.0-4.3-5.7	none		none		
	wet		6.7-6.7-6.7					
November	moist		2.3-3.3-4.9	none		none		
December	wet   moist		6.7-6.7-6.7   3.3-4.6-5.7		 		I	 
December	moist   wet		3.3-4.6-5.7   6.7-6.7-6.7	none		none		

Eckvoll (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H			[		L - R - H
					ļ	ļ	ļ	
January	   moist	  0_0_0_0_0	  4.6-5.4-6.7	none	 	l none	 	 
oanuar y			6.7-6.7-6.7	none	 	l none	 	 
February			4.9-5.7-6.7	none	! !	l none	! !	¦
- 022 441 7			6.7-6.7-6.7		i i		İ	i
March			3.3-4.6-6.7	none	i	l none	i	i
			6.7-6.7-6.7		İ	İ	i	i
April	moist	0.0-0.0-0.0	2.1-2.5-4.6	none	i	none	i	i
	wet	2.1-2.5-4.6	6.7-6.7-6.7		İ	į	į	į
May	moist	0.0-0.0-0.0	2.6-3.1-5.2	none	j	none	j	j
	wet	2.6-3.1-5.2	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
June	moist	0.0-0.0-0.0	2.6-3.8-6.2	none		none		
	wet	2.6-3.8-6.2	6.7-6.7-6.7			[		[
July	moist	0.0-0.0-0.0	3.8-4.9-6.7	none		none		
	wet	3.8-4.9-6.7	6.7-6.7-6.7					
August			5.2-6.7-6.7	none		none		
			6.7-6.7-6.7			[		[
September			3.8-4.1-6.7	none		none		
			6.7-6.7-6.7					
October			3.3-3.8-6.7	none		none		
			6.7-6.7-6.7					
November			2.5-3.3-5.6	none		none		
			6.7-6.7-6.7			[	[	[
December			3.8-4.1-6.2	none		none		
i	wet	3.8-4.1-6.2	6.7-6.7-6.7		1			

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B207A (continued)

Grygla (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H   		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	j 	none	i 	j 
	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
July	moist		1.6-3.3-4.9	none		none		
			6.7-6.7-6.7				ļ	
August	moist		2.5-4.1-5.7	none	ļ	none	ļ	
	wet		6.7-6.7-6.7		!	!	!	
September	moist		1.6-3.3-4.9	none	ļ	none	ļ	
_			6.7-6.7-6.7		!	ļ		
October	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
_			6.7-6.7-6.7				!	
November			0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7				1	l
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!	ļ	!	

B208A Grygla loamy fine sand, Des Moines, 0 to 2 percent slopes

Grygla (75 percent of the map unit)

		_			 	ļ	!	
Month	Moisture	-	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 	 	.  .	L - R - H 
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		 
0 411441 7			6.7-6.7-6.7		İ		i	i I
February	•		2.5-3.3-4.9	none	i	none	i	i
_	wet	2.5-3.3-4.9	6.7-6.7-6.7		i	i	i	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	j	none	j	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		ĺ	İ	İ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	•		6.7-6.7-6.7		<u> </u>	ļ	!	!
July	moist		1.6-3.3-4.9	none	ļ	none	ļ	ļ
_	•		6.7-6.7-6.7			ļ	!	!
August			2.5-4.1-5.7	none		none		
g	wet		6.7-6.7-6.7				!	
September	moist   wet		1.6-3.3-4.9   6.7-6.7-6.7	none		none		
October	wet   moist		0.7-0.7-0.7   1.3-2.5-4.1	none	l I	   rare	Ironi briof	  0.0-0.1-0.3
occoper			1.3-2.3-4.1   6.7-6.7-6.7	none	 	l rare	very prier	0.0-0.1-0.3
November	•		0.7-0.7-0.7   0.8-1.6-3.3	none	 	   rare	  verv brief	  0.0-0.1-0.3
rombot	wet		6.7-6.7-6.7	110110	İ	1410		
December	moist		11.3-2.1-3.8	none	i	l none	i	i
			6.7-6.7-6.7		i		i	i
		,			<u> </u>	¦	1	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B208A (continued)

Chilgren (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 			L - R - H
_								
January	moist		1.6-3.0-4.1	none		none		
<b>-</b> -1	wet   moist		6.7-6.7-6.7   2.5-3.3-4.9				1	
February	moist   wet			none		none		
March	wet   moist		6.7-6.7-6.7   1.3-2.1-3.3				 	 
March	moist   wet		1.3-2.1-3.3   6.7-6.7-6.7			none		
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5	none	I I	  occasional	   brief	  0.0-0.3-0.!
ADIII	wet		0.0-0.3-2.5   6.7-6.7-6.7	none		Occasional	l prier	1
May	wet   moist		0.7-0.7-0.7   0.3-0.8-3.3	none	l	  occasional	   brief	  0.0-0.3-0.
nay	wet		6.7-6.7-6.7			l	l prier	0 • 0 = 0 • 5 = 0 • ·
June	moist		0.7-0.7-0.7   0.7-1.3-4.1	none		occasional	very brief	I   0
ounc			6.7-6.7-6.7	110110	i i	I		O.O O.S O.
July	moist		1.6-3.0-4.9	none	i	none	i	i
0 412			6.7-6.7-6.7		i		i	İ
August			2.5-3.8-5.7			none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
September	moist		2.0-3.3-4.9	none	i	rare	very brief	0.0-0.3-0.
-	wet	2.0-3.3-4.9	6.7-6.7-6.7		i	i	i -	i
October	moist	0.0-0.0-0.0	1.3-1.6-4.1	none	j	rare	very brief	0.0-0.3-0.
	wet	1.3-1.6-4.1	6.7-6.7-6.7		İ	i	į -	İ
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.8-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		i
	wet	1.3-2.1-3.8	6.7-6.7-6.7		1		1	I
	I	I	ĺ		1	I		I

Eckvoll (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H			[		L - R - H
					ļ	ļ	ļ	
January	   moist	  0_0_0_0_0	  4.6-5.4-6.7	none	 	l none	 	 
oanuar y			6.7-6.7-6.7	none	 	l none	 	 
February			4.9-5.7-6.7	none	! !	l none	! !	¦
- 022 441 7			6.7-6.7-6.7		i i		İ	i
March			3.3-4.6-6.7	none	i	l none	i	i
			6.7-6.7-6.7		İ	İ	i	i
April	moist	0.0-0.0-0.0	2.1-2.5-4.6	none	i	none	i	i
	wet	2.1-2.5-4.6	6.7-6.7-6.7		İ	į	į	į
May	moist	0.0-0.0-0.0	2.6-3.1-5.2	none	j	none	j	j
	wet	2.6-3.1-5.2	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
June	moist	0.0-0.0-0.0	2.6-3.8-6.2	none		none		
	wet	2.6-3.8-6.2	6.7-6.7-6.7			[		[
July	moist	0.0-0.0-0.0	3.8-4.9-6.7	none		none		
	wet	3.8-4.9-6.7	6.7-6.7-6.7					
August			5.2-6.7-6.7	none		none		
			6.7-6.7-6.7			[		[
September			3.8-4.1-6.7	none		none		
			6.7-6.7-6.7					
October			3.3-3.8-6.7	none		none		
			6.7-6.7-6.7					
November			2.5-3.3-5.6	none		none		
			6.7-6.7-6.7			[	[	[
December			3.8-4.1-6.2	none		none		
	wet	3.8-4.1-6.2	6.7-6.7-6.7		1			

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B208A (continued)

Grygla, depressional (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L-R-H
						.	l	
January	moist		1.0-1.6-3.0			occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7					
February	moist		1.6-3.0-3.6			occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
March	moist		0.0-0.0-2.0			occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-1.0			frequent	long	0.0-0.3-0.8
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-2.0	none		frequent	long	0.0-0.3-0.8
	wet	0.0-0.0-2.0	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.2-0.8-2.5	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.7-1.6-3.3	none		rare	very brief	0.0-0.2-0.3
	wet	0.7-1.6-3.3	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	1.6-2.5-3.6	none		rare	very brief	0.0-0.2-0.3
	wet	1.6-2.5-3.6	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.0-1.6-3.0	none		rare	very brief	0.0-0.2-0.3
	wet	1.0-1.6-3.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.7-1.3-2.6	none		occasional	brief	0.0-0.3-0.5
	wet	0.7-1.3-2.6	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.3-0.8-1.6	none		occasional	long	0.0-0.3-0.5
	wet	0.3-0.8-1.6	6.7-6.7-6.7			1		l
December	moist	0.0-0.0-0.0	0.7-1.3-2.3	none		occasional	long	0.0-0.3-0.5
	wet	0.7-1.3-2.3	6.7-6.7-6.7			1		1

Northwood (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	[ [	L - R - H	L - R - H		ļ	1	l	L - R - H
						·		
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.3	none	 	  occasional	l long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		ĺ	İ		ĺ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			ļ		
August			0.8-1.6-3.3		ļ	rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	1		
September	moist		0.5-1.3-3.0		ļ	occasional	brief	0.0-0.3-0.5
_			6.7-6.7-6.7					
October			0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7			!	! -	
November	: :		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
_	wet		6.7-6.7-6.7			!	! -	
December	: :		0.5-1.3-2.5			occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					l i
	l ————————————————————————————————————	l	l —————		l ————	- I ——————	I	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B209A Seelyeville muck, depressional, Des Moines, 0 to 1 percent slopes

Seelyeville (90 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 	L - R - H 
January	moist	0.0-0.0-0.0	    0.5-1.0-3.3	none	i I	  occasional	long	  0.0-0.3-0.5
	wet	0.5-1.0-3.3	6.7-6.7-6.7		ĺ	İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.3-1.6-4.1	none		occasional	long	0.0-0.3-0.5
	wet	1.3-1.6-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7			1		
June			0.0-0.3-1.6	none		frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7		!			
July	: :		0.0-0.8-2.5	none	ļ	occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!		
August			0.5-1.6-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			!		
September			0.3-1.1-3.0	none		occasional	very brief	0.0-0.3-0.5
0 - 1 - 1			6.7-6.7-6.7			1	1 1	
October	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
November	wet     moist		6.7-6.7-6.7   0.0-0.3-1.6		 	  occasional	   long	  0.0-0.3-0.5
november	moist     wet		0.0-0.3-1.6   6.7-6.7-6.7	none		loccasional	l rong	0 . 0 - 0 . 3 - 0 . 5 
December	wet     moist		0.7-0.7-0.7   0.5-0.8-2.5	none	l I	  occasional	   long	  0.0-0.3-0.5
Jecenmer.	moist		0.5-0.8-2.5   6.7-6.7-6.7	none	 	loccastonat	l rond	0.0-0.3-0.5 
	wet	0.3-0.0-2.5	0 - / - 0 - / - 0 - /		1	!	!	

Cathro (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L-R-H		 	 _	 	L - R - H 
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	 	  occasional	long	0.0-0.3-0.
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	i	i	į
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	j	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7		ĺ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					[
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					1
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					[
June			0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
August			0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		<u> </u>	ļ		!
September			0.3-1.1-3.0	none	ļ	rare	brief	0.0-0.3-0.
_			6.7-6.7-6.7					
October			0.2-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
November			0.0-0.3-1.6	none		occasional	long	0.0-0.3-0.
			6.7-6.7-6.7				1	
December	moist		0.5-0.8-2.5	none	ļ	occasional	long	0.0-0.3-0.5
	wet	0.5-0.8-2.5	6.7-6.7-6.7		I			

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B209A (continued)

Dora (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  0.5-1.3-3.3	none	 	  occasional	long	    0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7			1		
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist		0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7			1		
July	moist		0.2-0.8-2.5	none	ļ	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ.		
August	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!	!	
September	moist		0.3-1.1-3.0	none		rare	brief	0.0-0.3-0.5
0 1 1	wet		6.7-6.7-6.7			1	1 2001.6	
October	moist		0.2-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7   0.0-0.3-1.6		 		1 1	 
November	moist			none		occasional	long	0.0-0.3-0.5
December	wet   moist		6.7-6.7-6.7   0.5-0.8-2.5	nono	 	  occasional	   long	  0.0-0.3-0.5
Jecember	moist   wet	0.5-0.8-2.5		none	!	loccasionai	l rong	10.0-0.3-0.5

Markey (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 	L - R - H 
January	moist	0.0-0.0-0.0	    0.5-1.3-3.3	none	i I	  occasional	long	    0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	j	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7		[			
March			0.0-0.0-2.5			occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7					
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7		!			!
June			0.0-0.0-1.6		ļ	occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7				 	
August			0.8-1.6-3.3   6.7-6.7-6.7			rare	very brier	0.0-0.3-0.5
September			0.7-6.7-6.7   0.3-1.1-3.0		l i	   rare	   brief	  0.0-0.3-0.5
september			0.3-1.1-3.0   6.7-6.7-6.7			rare	l prier	1
October			0.7-0.7-0.7   0.2-0.5-2.5		! 	  occasional	   brief	  0.0-0.3-0.5
occoper			6.7-6.7-6.7		 		Dilei	0.0-0.5-0.
November			0.0-0.3-1.6		¦	occasional	long	  0.0-0.3-0.5
			6.7-6.7-6.7		i			
December			0.5-0.8-2.5		i	occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7		i			
	i		i ' '		i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B209A (continued)

Berner (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			ļ		L-R-H
	l   				 	·		 
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	i	occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
February	moist		1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7					
March	moist		0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7			ļ	ļ	
April	moist		0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		ļ	ļ	ļ	
May	moist		0.0-0.0-1.3	none	ļ	frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		!	!	!	
June	moist		0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7			!		
July	moist		0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.5
3	wet   moist		6.7-6.7-6.7   0.8-1.6-3.3	none			 	  0.0-0.3-0.5
August	moist     wet		0.8-1.6-3.3   6.7-6.7-6.7	none	<del></del>	rare	very brier	0.0-0.3-0.5
September	wet     moist		0.7-6.7-6.7   0.3-1.1-3.0	none	l i	   rare	   brief	  0.0-0.3-0.5
september	moist		6.7-6.7-6.7	none	 	rare	l prier	0.0-0.3-0.5
October	wet     moist		0.7-0.7-0.7   0.2-0.5-2.5	none	! !	  occasional	   brief	I  0.0-0.3-0.5
occoper	wet		6.7-6.7-6.7	none	 	l	l prier	0 • 0 = 0 • 5 = 0 • 5
November	wet     moist		0.0-0.3-1.6	none	! !	loccasional	long	ı  0.0-0.3-0.5
	wet		6.7-6.7-6.7		! 			
December	moist		0.5-0.8-2.5	none	! 	occasional	long	  0.0-0.3-0.5
2000111001	wet		6.7-6.7-6.7		i I			

B210A Eckvoll loamy fine sand, Des Moines, 0 to 3 percent slopes

Eckvoll (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - F 
January	moist	10.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	   	   
Januar ,			6.7-6.7-6.7	110110	i İ	110110	i İ	i
February			4.9-5.7-6.7	none	i	none	i	i
-	wet	4.9-5.7-6.7	6.7-6.7-6.7		İ	i	İ	i
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none	i	none	j	j
	wet	3.3-4.6-6.7	6.7-6.7-6.7			1	l	1
April			2.1-2.5-4.6	none		none		
			6.7-6.7-6.7			[		
May			2.6-3.1-5.2	none		none		
			6.7-6.7-6.7					
June			2.6-3.8-6.2	none	!	none	!	!
_			6.7-6.7-6.7			!	<u> </u>	!
July			3.8-4.9-6.7	none		none	ļ	!
			6.7-6.7-6.7					!
August			5.2-6.7-6.7	none		none		
September			6.7-6.7-6.7   3.8-4.1-6.7	none	 		l I	 
september			3.8-4.1-6.7   6.7-6.7-6.7	none	 	none	 	
October			3.3-3.8-6.7	none	 	l none	I I	 
JCCODCI	wet		6.7-6.7-6.7	110110	i i	1	! 	i
November			2.5-3.3-5.6	none	i	l none	i	i
			6.7-6.7-6.7		İ		İ	i
December			3.8-4.1-6.2	none	i	none	i	i
	wet	3.8-4.1-6.2	6.7-6.7-6.7		i	i	İ	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B210A (continued)

Chilgren (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		 
İ	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7			1		
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none		
	wet	1.3-2.1-3.3	6.7-6.7-6.7			1		
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May			0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	!	!	
July			1.6-3.0-4.9	none	ļ	none	ļ	
			6.7-6.7-6.7			ļ	!	
August			2.5-3.8-5.7	none		none	ļ	
			6.7-6.7-6.7			!		
September			2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
October	wet     moist		6.7-6.7-6.7   1.3-1.6-4.1		 			  0.0-0.3-0.5
october			1.3-1.6-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.3-0.5
November			0.7-6.7-6.7   0.8-1.3-3.3	none	l i	  occasional	   brief	  0.0-0.3-0.5
loveliber			0.8-1.3-3.3   6.7-6.7-6.7	none	 	Occasional	l prier	0.0-0.3-0.5 
December			1.3-2.1-3.8	none	l 	l none		! !
,ecember			1.3-2.1-3.8   6.7-6.7-6.7	110116	 	l mone	-3-	 

Grygla (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	 	
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	i	į	İ
ebruary	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	j	none	j	
	wet	2.5-3.3-4.9	6.7-6.7-6.7		ĺ	İ		İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
pril	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
lay	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
une	moist		0.8-1.6-4.1	none	ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7			ļ		
Tuly	moist		1.6-3.3-4.9	none	!	none	ļ	
			6.7-6.7-6.7			!	!	
lugust	moist		2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7				!	
eptember			1.6-3.3-4.9	none		none		
			6.7-6.7-6.7   1.3-2.5-4.1					
ctober	moist   wet		1.3-2.5-4.1   6.7-6.7-6.7	none		rare	very brief	0 • 0 - 0 • 1 - 0 • ·
ovember	wet   moist		0.8-1.6-3.3	none	l I	   rare	very brief	   0
ovember	wet	•	0.8-1.6-3.3   6.7-6.7-6.7	none	 	rare	very prier	0 • 0 - 0 • 1 - 0 • ·
ecember	wet   moist		1.3-2.1-3.8	none	! !	l none		
ecemper	wet		1.3-2.1-3.6   6.7-6.7-6.7	110116	 	I HOHE	 	 
	l wer	± • 5 - 2 • 1 - 5 • 6	0.7-0.7-0.7   		 			
	I		I		l ————————	-	1	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B210A (continued)

Garnes (7 percent of the map unit)

Month		Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
I		L - R - H   	L - R - H		 	 	 	L - R - H 
January	moist	    0.0-0.0-0.0	4 1-5 4-6 7	none		none		 
oanuary		4.1-5.4-6.7		none	 	l none	 	i
February		0.0-0.0-0.0		none	l	none	l I	 
CDIGGLY		4.9-5.9-6.7		110110	! I	110110	! 	i
March		0.0-0.0-0.0		none	' 	none		i
i	wet	3.3-4.9-6.7	6.7-6.7-6.7		İ	i		i
April	moist	0.0-0.0-0.0	1.8-2.5-4.1	none	i	none	i	i
i	wet	1.8-2.5-4.1	6.7-6.7-6.7		İ	į	İ	İ
May	moist	0.0-0.0-0.0	2.3-2.8-4.9	none	i	none	i	j
į	wet	2.3-2.8-4.9	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
June	moist	0.0-0.0-0.0	2.6-3.1-5.7	none		none		
	wet	2.6-3.1-5.7	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	3.3-5.7-6.7	none		none		
		3.3-5.7-6.7						
August		0.0-0.0-0.0		none		none		ļ
ļ		4.9-6.7-6.7			!	!		!
September		0.0-0.0-0.0		none		none	ļ	ļ
!		3.6-4.9-6.7				ļ		!
October			3.0-4.3-5.7	none		none		
		3.0-4.3-5.7						
November		0.0-0.0-0.0		none		none		
Do = = = =		2.3-3.3-4.9			 		 	 
December		0.0-0.0-0.0   3.3-4.6-5.7		none	 	none		

Pelan (3 percent of the map unit)

Month	  Moisture	l Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	Scacus	L - R - H	L - R - H     L - R - H	rrequency		Irequency		L - R - F
January	     moist		    4.8-5.4-6.7	none		none	   	   
anuar y	wet		4.8-3.4-6.7   6.7-6.7-6.7		 	l none	 	 
February	moist		5.2-5.7-6.7		 	l none	 	! !
. CDI ddi j	wet		6.7-6.7-6.7		;	110110	i	i
March	moist		3.3-4.6-6.7		i	none		i
	wet		6.7-6.7-6.7		i	İ	i	i
April	moist		1.3-2.5-4.9		i	none	i	i
_	wet	1.3-2.5-4.9	6.7-6.7-6.7		İ	İ	İ	İ
ſay	moist	0.0-0.0-0.0	2.0-3.0-5.6	none	j	none	j	j
	wet	2.0-3.0-5.6	6.7-6.7-6.7		İ	Ì	ĺ	ĺ
June	moist	0.0-0.0-0.0	2.6-3.6-6.2	none		none		
	wet	2.6-3.6-6.2	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	3.9-5.4-6.7	none		none		
	wet	3.9-5.4-6.7	6.7-6.7-6.7		1			1
lugust	moist		5.4-6.7-6.7			none		
	wet		6.7-6.7-6.7					
September	moist		4.1-4.6-6.7			none		
	wet		6.7-6.7-6.7		ļ			
ctober	moist		3.6-3.9-6.7			none		
	wet		6.7-6.7-6.7		!	!	!	!
ovember	moist		2.5-3.3-5.7		ļ	none	!	!
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		3.9-4.6-6.2	none	!	none		!
	wet	3.9-4.6-6.2	6.7-6.7-6.7		!		!	!
		l					l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B211A Berner and Cathro soils, ponded, Des Moines, 0 to 1 percent slopes

Berner, ponded (45 percent of the map unit)

Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	Ponding	   Ponding	   Ponding
Month	!		!	_	duration	!	!	!
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H		ļ	1		L - R - H
	l					.	.	.
January	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
February	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
March	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
April	wet	0.0-0.0-0.0	6.7-6.7-6.7	none	i	frequent	very long	0.0-1.0-4.0
May	wet	0.0-0.0-0.0	6.7-6.7-6.7	none	i	frequent	very long	0.0-1.0-4.0
June	wet	0.0-0.0-0.0	6.7-6.7-6.7	none	i	frequent	very long	0.0-1.0-4.0
July	wet	0.0-0.0-0.0	6.7-6.7-6.7	none	i	frequent	very long	0.0-1.0-4.0
August	wet	0.0-0.0-0.0	6.7-6.7-6.7	none	i	frequent	very long	0.0-1.0-4.0
September	wet	0.0-0.0-0.0	6.7-6.7-6.7	none	i	frequent	very long	0.0-1.0-4.0
October	wet	0.0-0.0-0.0	6.7-6.7-6.7	none	i	frequent	very long	0.0-1.0-4.0
November	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
December	wet	0.0-0.0-0.0	6.7-6.7-6.7	none	j	frequent	very long	0.0-1.0-4.0
	i	i	i i		i	i	i	i

Cathro, ponded (45 percent of the map unit)

Month	  Moisture	   Top	Bottom	Flooding	   Flooding	Ponding	Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L - R - H		İ	i	İ	L - R - H
							.	
January	   wet	  0.0-0.0-0.0	  6.7-6.7-6.7	none	 	   frequent	very long	0.0-1.0-4.0
February	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
March	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
April	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
May	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
June	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
July	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
August	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
September	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
October	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
November	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
December	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
	İ	l	İ		I	İ	İ	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B211A (continued)

Chilgren (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 			L - R - H
_								
January	moist		1.6-3.0-4.1	none		none		
<b>-</b> -1	wet   moist		6.7-6.7-6.7   2.5-3.3-4.9				1	
February	moist   wet			none		none		
March	wet   moist		6.7-6.7-6.7   1.3-2.1-3.3				 	 
March	moist   wet		1.3-2.1-3.3   6.7-6.7-6.7			none		
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5	none	I I	  occasional	   brief	  0.0-0.3-0.!
ADIII	wet		0.0-0.3-2.5   6.7-6.7-6.7	none		Occasional	l prier	1
May	wet   moist		0.7-0.7-0.7   0.3-0.8-3.3	none	l	  occasional	   brief	  0.0-0.3-0.
nay	wet		6.7-6.7-6.7			l	l prier	0 • 0 = 0 • 5 = 0 • ·
June	moist		0.7-0.7-0.7   0.7-1.3-4.1	none		occasional	very brief	I   0
ounc			6.7-6.7-6.7	110110	i i	I		O.O O.S O.
July	moist		1.6-3.0-4.9	none	i	none	i	i
0 412			6.7-6.7-6.7		i		i	İ
August			2.5-3.8-5.7			none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
September	moist		2.0-3.3-4.9	none	i	rare	very brief	0.0-0.3-0.
-	wet	2.0-3.3-4.9	6.7-6.7-6.7		i	i	i -	i
October	moist	0.0-0.0-0.0	1.3-1.6-4.1	none	j	rare	very brief	0.0-0.3-0.
	wet	1.3-1.6-4.1	6.7-6.7-6.7		İ	İ	į -	İ
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.8-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		i
	wet	1.3-2.1-3.8	6.7-6.7-6.7		1		1	I
	I	I	ĺ		1	I		I

Grygla (2 percent of the map unit)

Month	Moisture	l Top	ı ı   Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L - R - н		  -		į	L - R - н
January	moist		    1.6-3.0-4.1	none	   	none		
- unuun 7			6.7-6.7-6.7		İ		i	i
ebruary			2.5-3.3-4.9		i	none	i	i
-	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	i	i	i
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	j	none	j	j
	wet	1.6-2.1-4.1	6.7-6.7-6.7		ĺ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
lay	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0
			6.7-6.7-6.7					
June			0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0
			6.7-6.7-6.7				1	
July			1.6-3.3-4.9		!	none	ļ	ļ
			6.7-6.7-6.7			ļ.	!	ļ
August			2.5-4.1-5.7	none	ļ	none	!	ļ
			6.7-6.7-6.7			ļ	!	
September			1.6-3.3-4.9			none		
N = 1 = 1 =			6.7-6.7-6.7				1	
October			1.3-2.5-4.1	none		rare	very brief	10.0-0.1-0
Jovember			6.7-6.7-6.7   0.8-1.6-3.3		 		  very brief	
lovember			0.8-1.6-3.3   6.7-6.7-6.7			rare	very brier	10.0-0.1-0
December			6.7-6.7-6.7   1.3-2.1-3.8		 	l none	1	I I
/ecember			1.3-2.1-3.8   6.7-6.7-6.7	none	 	none		
	l wet	1.3-2.1-3.6	0./-0./-6./  		[ [	I I	I I	I I
	I ———	I ————	II		l ————————	_	·I	l ————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B211A (continued)

Hamre (2 percent of the map unit)

Manth			Datte	 	=====================================			 
Month	Moisture   status	-	Bottom	Flooding	Flooding   duration	Ponding	Ponding   duration	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	1	L - к - н	L - к - н		l i	 	 	L - к - н
	I	l ————————————————————————————————————			l			
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.3	none	 	  occasional	l l long	  0.0-0.5-1.0
_	wet	0.8-1.6-3.3	6.7-6.7-6.7		<u> </u> 	i	i	İ
February	moist		1.6-2.5-4.1			occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7		İ	į	į	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7			ĺ	ĺ	
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7			1		
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7			[		
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
	wet	0.0-0.5-1.6	6.7-6.7-6.7			[		
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.5
	wet	0.2-0.8-2.5	6.7-6.7-6.7			[		
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist		0.5-1.3-3.0			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			[		
October	moist		0.3-0.8-2.5	!		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7	!				
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7	!			[	
December	moist		0.5-1.3-2.5	!		occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7			[	[	

Northwood (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H			1	1	L - R - H
						_		
January	moist	0.0-0.0-0.0	  0.8-1.6-3.3	none	 	  occasional	l long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	j	į	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	j	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
August			0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
September			0.5-1.3-3.0		!	occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7		!			
October			0.3-0.8-2.5		!	occasional	brief	0.0-0.5-1.0
_			6.7-6.7-6.7				ļ _	
November			0.0-0.3-1.6		!	occasional	long	0.0-0.5-1.0
_			6.7-6.7-6.7				ļ _	
December			0.5-1.3-2.5		!	occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

B211A (continued)

Seelyeville, ponded (2 percent of the map unit)

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Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L - R - H
	İ	İ	j i		İ	İ	į	į
January	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
February	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
March	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
April	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
May	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
June	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
July	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
August	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
September	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
October	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
November	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
December	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
	.							

\*

IIA Augsburg loam, 0 to 2 percent slopes

Augsburg (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L - R - H	L-R-H		į	į	į	L - R - H
	l						ļ	
January	   moist	0.0-0.0-0.0	  1.6-2.1-4.1	none	 	none	 	 
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none	j	
	wet	2.0-2.6-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none		none		
	wet	1.5-2.3-4.9	6.7-6.7-6.7				1	
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7				[	
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet		6.7-6.7-6.7					
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7				ļ	
November	moist		0.8-1.6-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			1	I	
December	moist		1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7			1	I	
	l							

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

#### I1A (continued)

Borup (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
	<b> </b>					<b> </b>	<b> </b>	
January	moist		1.6-3.0-4.1	none		none		
			6.7-6.7-6.7					
February	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7					
March	moist		1.3-2.1-3.3			none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.7-1.3-4.1			occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7					
July	moist		1.6-3.0-4.9			none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7			[		
September	moist	0.0-0.0-0.0	2.0-3.3-4.9	none		rare	very brief	0.0-0.1-0.3
	wet	2.0-3.3-4.9	6.7-6.7-6.7			[		
October	moist	0.0-0.0-0.0	1.3-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-1.6-4.1	6.7-6.7-6.7			[		
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	very brief	0.0-0.1-0.3
	wet	0.8-1.3-3.3	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
			I I		I	I	1	I

## Foxlake (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	j j	L - R - H	L - R - H   		 	İ	İ I	L - R - H
January	moist	0.0-0.0-0.0	    0.8-2.1-4.1	none	   	none		
	wet		6.7-6.7-6.7		İ	i	i	
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none	j	
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none	i	none		
	wet	0.3-1.3-3.3	6.7-6.7-6.7					
April			0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	!		
July			1.3-2.1-4.1	none	ļ	rare	very brief	0.0-0.2-0.3
			6.7-6.7-6.7			ļ		
August			1.6-3.0-4.9	none		rare	very brief	0.0-0.2-0.3
g			6.7-6.7-6.7				 	
September			1.3-2.5-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.2-0.3 
October			0.7-0.7-0.7   0.8-1.6-3.3	none	l I	  occasional	lucry brief	  0.0-0.2-0.3
October			0.8-1.8-3.3   6.7-6.7-6.7	none	 	l	very prier	0.0-0.2-0.3 
November			0.7-0.7-0.7   0.5-1.3-2.5	none	! !	occasional	   brief	  0.0-0.3-0.5
November			6.7-6.7-6.7	none	I		Dilei	0 • 0 = 0 • 5 = 0 • 5
December			0.7-0.7-0.7   0.8-1.6-3.3	none	 	l none	i	 
	wet		6.7-6.7-6.7		İ		i	i I
					:	<u> </u>	i	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I1A (continued)

Augsburg, depressional (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 		 	L - R - H 
January	moist		1.0-1.6-3.0	none		 	long	0.0-0.5-1.0
January			1.0-1.8-3.0   6.7-6.7-6.7	none	 	l	l 10119	0.0-0.5-1.\
February	wec   moist		1.6-3.0-3.6	none	 	occasional	llong	  0.0-0.5-1.0
CDIGGI			6.7-6.7-6.7	110110	i i		l rong	0.0 0.5 1.
March	moist		0.0-0.0-2.0	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7		i	i	i	İ
April   mo	moist	0.0-0.0-0.0	0.0-0.0-1.0	none	j	frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.0	6.7-6.7-6.7		İ	İ	İ	ĺ
May	moist	0.0-0.0-0.0	0.0-0.0-2.0	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0		none		occasional	brief	0.0-0.5-1.0
	wet	0.2-0.8-2.5						
July	moist		0.7-1.6-3.3	none		rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!	ļ		!
August	moist		1.6-2.5-3.6	none	ļ	rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			!	!	
September	moist		1.0-1.6-3.0	none		occasional	brief	0.0-0.3-0.
October	wet   moist		6.7-6.7-6.7   0.7-1.3-2.6		1	  occasional	   brief	  0.0-0.3-0.
Jetober	moist   wet		0.7-1.3-2.6   6.7-6.7-6.7	none		loccasional	Driei	10.0-0.3-0.
November	wet   moist		0.7-0.7-0.7   0.3-0.8-1.6	none	l I	loccasional	   long	  0.0-0.5-1.0
40 A ETIMET	moist   wet		6.7-6.7-6.7	110116	 	l	1 10119	0.0-0.541.\
December	wet   moist		0.7-0.7-0.7	none	! 	loccasional	llong	  0.0-0.5-1.0
,cccmber	wet	0.7-1.3-2.3		110116	1	I	1 20119	1

Wheatville (3 percent of the map unit)

		I	l		l	I	I	<u> </u>
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   	 	 	 	 	L - R - I 
January	   moist	 	 	none		none	 	
J 411441 7	wet		6.7-6.7-6.7		i I		İ	İ
February	moist		3.3-4.6-6.7			none	i	i
_	wet	3.3-4.6-6.7	6.7-6.7-6.7	İ	İ	į	į	İ
March	moist	0.0-0.0-0.0	2.5-3.0-5.7	none	i	none	j	j
	wet	2.5-3.0-5.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
- '	moist	0.0-0.0-0.0	0.7-1.3-3.3	none		none		
	wet	0.7-1.3-3.3	6.7-6.7-6.7			[		
fay	moist	0.0-0.0-0.0	1.0-1.6-4.1	none		none		
	wet		6.7-6.7-6.7	•				
June	moist		1.6-2.5-4.9	•		none		
	wet		6.7-6.7-6.7					
July	moist		2.5-3.8-6.2	•	ļ	none	!	!
	wet		6.7-6.7-6.7		!	!	!	!
August	dry		0.0-0.0-0.3		ļ	none	!	ļ
	moist		3.8-6.7-6.7	•				
a t t	wet		6.7-6.7-6.7	•				ļ
September	moist   wet		2.5-3.8-6.2 6.7-6.7-6.7			none		
October	wet   moist		2.0-3.0-5.6		l i	l none	l I	! !
occoper	wet		6.7-6.7-6.7	•	 	l none	 	 
November	moist		11.6-2.5-4.9	•	! !	l none	 	! !
10 1 CHIDET	wet		6.7-6.7-6.7		I	1 110116	 	 
December	moist		2.0-3.3-5.4	•	! 	l none	! 	
- COCINOCI	wet		6.7-6.7-6.7		! 		i	i
				 	i i	i	i	i
	1	1 ————	. — — —		. — — — — — — — — — — — — — — — — — — —	1	1 ———	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I1A (continued)

Glyndon (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 .	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	  0.0-0.0-0.0	  2.5-4.1-6.7	none	 	none	 	 
			6.7-6.7-6.7					
February	moist	•	3.3-4.9-6.7		ļ	none	!	
	wet		6.7-6.7-6.7		<u> </u>	!	!	
March	moist		2.5-3.9-5.7		ļ	none	!	
	wet	•	6.7-6.7-6.7			!	!	
April	moist		0.7-1.0-3.3			none		ļ
	wet		6.7-6.7-6.7					
May	moist		1.0-1.6-4.1			none		
_			6.7-6.7-6.7					
June	moist		1.6-2.5-4.9			none		
T 1			6.7-6.7-6.7   0.0-0.0-0.2		 		 	 
July	dry   moist		2.5-3.9-6.7			none		
	wet		6.7-6.7-6.7		l I	l I	l I	l I
August	dry		0.0-0.0-0.3		l I	l none	l I	l I
August	moist		3.3-6.7-6.7		 	l none	 	 
	wet		6.7-6.7-6.7		 	! 	! !	 
September			2.5-4.6-6.2		! 	l none	! !	! 
осресиюсь	wet		6.7-6.7-6.7		! 	1	i	! 
October	moist		2.0-4.1-5.7			l none	i	
	wet		6.7-6.7-6.7		i		i	İ
November	moist		1.6-3.0-4.1			l none	i	i
	wet		6.7-6.7-6.7		i	İ	i	i
December	moist		2.0-3.8-4.9		i	none	i	i
	wet		6.7-6.7-6.7		İ	İ	i	İ
	.i	İ	i		İ	i	i	İ

Espelie (1 percent of the map unit)

					1			
Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H		ĺ	į	į	L - R - H
	 	 	 	l	l	 	 	 
January	moist		1.6-2.1-4.1			none	i	ļ
	wet		6.7-6.7-6.7					
February	moist		2.0-2.6-4.9	•		none		
	wet		6.7-6.7-6.7					
March	moist		1.5-2.3-4.9			none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
May	moist		0.5-0.8-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9			none		
	•		6.7-6.7-6.7	•				
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1	•		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
November	moist		0.8-1.6-3.3			rare	very brief	0.0-0.1-0.3
	wet	•	6.7-6.7-6.7	•		1	I	<u> </u>
December	moist		1.3-2.0-3.9			none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7			1	I	<u> </u>

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I1A (continued)

Hattie (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0 - 0 - 0 - 0 - 0	 	none		none	   	   
2			6.7-6.7-6.7		İ		i	i
February			4.9-6.7-6.7	none	i	none	i	i
_	wet	4.9-6.7-6.7	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	4.1-5.7-6.7	none	i	none	j	j
	wet	4.1-5.7-6.7	6.7-6.7-6.7					
	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
June	moist		2.0-3.0-5.7	none		none		
	wet		6.7-6.7-6.7					
July	moist		2.5-4.1-6.7	none		none		
			6.7-6.7-6.7		<u> </u>	!	!	!
August	moist		3.3-4.9-6.7	none	ļ	none	!	!
			6.7-6.7-6.7			!	!	!
September			3.3-4.6-6.7	none		none		
			6.7-6.7-6.7					
October			2.5-4.1-5.7	none		none		
November	wet		6.7-6.7-6.7		 		 	
November			3.3-4.6-6.7   6.7-6.7-6.7	none		none		
December			8.7-6.7-6.7   3.6-4.9-6.7	none	l I	l none	l I	l I
pecemper			3.6-4.9-6.7   6.7-6.7-6.7	none	 	l none	ı	ı
	l wer	3.0-4.3-0.7	0 . / - 0 . / - 0 . /		!	<u> </u>	!	!

I3A Berner muck, 0 to 1 percent slopes

Berner (80 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 	 _	 	L - R - H
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	 	  occasional	long	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7					[
February	moist		1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1			[			ļ
March	moist	0.0-0.0-0.0		none	!	occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		<u> </u>		! -	
April	moist	0.0-0.0-0.0		none		frequent	long	0.0-0.5-1.0
May	wet   moist		6.7-6.7-6.7   0.0-0.0-1.3	none		   frequent	   long	  0.0-0.5-1.0
may	wet		6.7-6.7-6.7	none	 i	l	l 10119	1
June	wet   moist	0.0-0.0-1.3		none	 	occasional	   brief	  0.0-0.5-1.0
0 4110	wet	0.0-0.0-1.6			i		22202	
July	moist	0.0-0.0-0.0		none	i	rare	very brief	0.0-0.3-0.5
_	wet	0.2-0.8-2.5	6.7-6.7-6.7		İ	j	į -	İ
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	j	rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0		none		rare	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist	0.0-0.0-0.0		none	ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					ļ
November	moist		0.0-0.3-1.6	none	!	occasional	long	0.0-0.3-0.5
_	wet		6.7-6.7-6.7		!		! _	
December	moist	0.0-0.0-0.0		none	!	occasional	long	0.0-0.3-0.5
	wet	0.5-0.8-2.5	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I3A (continued)

Northwood (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 	L - R - H 
January	moist	0.0-0.0-0.0	  0.8-1.6-3.3	none	i 	occasional	long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
	moist	0.0-0.0-0.0	0.0-0.0-2.5	none	j	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7		1			
April   mois	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7		[			
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
August			0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
September			0.5-1.3-3.0			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7		ļ			
October			0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7		ļ			
November			0.0-0.3-1.6	none		occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7		ļ		!	
December			0.5-1.3-2.5	none	!	occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7		ļ	İ	1	l

Kratka (5 percent of the map unit)

Month	  Moisture	l Top	Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	i	L-R-H	L-R-H	i	ĺ	i	į	L-R-H
	İ	İ	İ	İ	İ	İ	İ	
		l	!			ļ	ļ	l
January	moist		1.6-3.0-4.1			none	ļ	
			6.7-6.7-6.7				ļ	
February	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7					
March	moist		1.6-2.1-4.1			none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7				[	
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7				1	
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7			l	I	
	1	I	i i	l		l	I	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I3A (continued)

Hamre (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L-R-H		 		 	L - R - H 
January	moist		0.8-1.6-3.3	none		 	long	0.0-0.5-1.0
January	wet		6.7-6.7-6.7	none	 	l	l 10119	1
February	wec   moist		1.6-2.5-4.1	none	! 	occasional	llong	  0.0-0.5-1.
			6.7-6.7-6.7		İ			
March	moist		0.0-0.0-2.5	none	i	occasional	long	0.0-0.5-1.
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	i	i	į
April   mo	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	j	frequent	long	0.0-0.5-1.
	wet	0.0-0.0-0.8	6.7-6.7-6.7		ĺ	İ	İ	ĺ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7			1		1
June	moist		0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7			Ţ		[
July	moist		0.2-0.8-2.5	none	!	rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			ļ	!	
August	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7				1 1	
September	moist wet		0.5-1.3-3.0   6.7-6.7-6.7	none		occasional	brief	0.0-0.3-0.
October	wet   moist		0.7-6.7-6.7   0.3-0.8-2.5	none	l I	  occasional	   brief	  0.0-0.5-1.
occoper	wet		6.7-6.7-6.7	none	 	l	l prier	1
November	wec   moist		0.0-0.3-1.6	none	 	loccasional	llong	  0.0-0.5-1.
	wet		6.7-6.7-6.7		i I			
December	moist		0.5-1.3-2.5	none	i	loccasional	long	  0.0-0.5-1.
	wet	0.5-1.3-2.5			i		i	

Strathcona (3 percent of the map unit)

	I	I	I		ı	ı	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		
Uanuary	wet		1.0-3.0-4.1   6.7-6.7-6.7		 	l none		 
February	moist		2.5-3.3-4.9		 	l none		 
r cor dar y	wet		6.7-6.7-6.7		i	110110	i	i
March	moist		11.6-2.1-4.1		i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
April   moist	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		į	İ	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		[			
July	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	!		!
November	moist		0.8-1.6-3.3		ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		1.3-2.1-3.8	none	!	none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!		!	!
	l					-l	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I3A (continued)

Seelyeville (2 percent of the map unit)

		l					I	l
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
							ļ	
January	   moist	  0.0-0.0-0.0	  0.5-1.0-3.3	none	 	  occasional	   long	  0.0-0.3-0.5
	wet		6.7-6.7-6.7		i		i	i
February	moist		1.3-1.6-4.1		i	occasional	long	0.0-0.3-0.5
_	wet	1.3-1.6-4.1	6.7-6.7-6.7		į	İ	i	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none	j	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.3-1.6			frequent	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.0-0.8-2.5			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				ļ	
August	moist		0.5-1.6-3.3			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!		!	!
September			0.3-1.1-3.0		ļ	occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!	!	
October	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				! .	
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7				!	
December	moist		0.5-0.8-2.5	none		occasional	long	0.0-0.3-0.5
	wet	10.5-0.8-2.5	6.7-6.7-6.7		1			
	I	l	l ————		l ————		l	l ————

I4A Berner, Rosewood, and Strathcona soils, seepy, 0 to 2 percent slopes

Berner (30 percent of the map unit)

						1	1	
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	i I	L-R-H	L-R-H			İ -I	İ I	L - R - н 
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		  occasional	long	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	i	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7		[			
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		1			
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.0-1.6			occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7		!	!		!
July	moist		0.2-0.8-2.5		ļ	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!		
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!	!	
September	!		0.3-1.1-3.0			rare	brief	0.0-0.3-0.5
0 -1 -1	wet		6.7-6.7-6.7			1	1 1 1 1 1 1	
October	moist   wet		0.2-0.5-2.5 6.7-6.7-6.7			occasional	brief	0.0-0.3-0.5
			0.0-0.3-1.6		 	  occasional	1	
November	moist   wet		0.0-0.3-1.6   6.7-6.7-6.7			occasional	long	0.0-0.3-0.5
December	wet   moist		0.5-0.8-2.5		1	  occasional	   long	  0.0-0.3-0.5
December	moist   wet	•	6.7-6.7-6.7		<del></del>	l	l rong	0.0-0.3-0.5
	l wer	10.5-0.8-2.5	0 . / - 0 . / - 0 . /		[ [	I I	I I	l I
		l ————				-	·	l ————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I4A (continued)

Rosewood, depressional (30 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H   	L-R-H		 			L - R - H 
<b>-</b>								
January	moist wet		0.8-1.6-3.0   6.7-6.7-6.7	none		occasional	long	0.0-0.5-1.0
February	wec   moist		2.0-3.0-3.6	none	l I	  occasional	llong	  0.0-0.5-1.0
rebruary	wet		6.7-6.7-6.7	none	 	l	l 10119	0.0-0.5-1.\
March	moist		0.0-0.5-2.0	none	¦	loccasional	llong	  0.0-0.5-1.0
	wet		6.7-6.7-6.7		i		5	 
April	moist		0.0-0.0-1.0	none	i	frequent	long	0.0-0.5-1.0
_	wet	0.0-0.0-1.0	6.7-6.7-6.7		i	i -	i	i
May	moist	0.0-0.0-0.0	0.0-0.5-2.0	none	j	frequent	long	0.0-0.5-1.0
	wet	0.0-0.5-2.0	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.3-1.3-2.6	none		occasional	brief	0.0-0.5-1.0
	wet	0.3-1.3-2.6	6.7-6.7-6.7					
July	moist		1.0-2.1-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
August	moist		2.0-3.0-3.8	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	ļ		!
September	moist		1.0-2.1-3.3	none	ļ	rare	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist wet		0.7-1.6-2.6	none		occasional	brief	0.0-0.3-0.5
November	wet   moist		6.7-6.7-6.7   0.3-1.3-2.0	2020	l I	  occasional	   long	  0.0-0.5-1.0
November	moist   wet		0.3-1.3-2.0   6.7-6.7-6.7	none		loccasional	l rong	10.0-0.5-1.0
December	wec   moist		0.7-0.7-0.7   0.7-1.6-2.5	none		loccasional	   long	  0.0-0.5-1.0
>ecemper	wet		6.7-1.0-2.3   6.7-6.7-6.7	110116	1	l	l Tong	0.0-0.5-1.(

Strathcona, depressional (30 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H		İ	İ	İ	L-R-H
			I		ļ	_[	.	ļ
January	   moist	0.0-0.0-0.0	  1.0-1.6-3.0	none	 	  occasional	long	  0.0-0.5-1.0
_	wet	1.0-1.6-3.0	6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	1.6-2.5-3.3	none	i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-3.3	6.7-6.7-6.7		İ	į	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.0	none	j	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7		İ	į	İ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.0-1.0	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.0	6.7-6.7-6.7		[			
May	moist	0.0-0.0-0.0	0.0-0.0-2.0	none		frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.2-0.8-2.5	none		occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.7-1.6-3.0	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
August			1.6-2.5-3.6	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		ļ			
September			1.0-1.6-3.0	none		rare	brief	0.0-0.3-0.5
			6.7-6.7-6.7		!			!
October			0.7-1.3-2.6	none	ļ	occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7		!		!	!
November			0.3-0.8-1.6	none	ļ	occasional	long	0.0-0.5-1.0
_			6.7-6.7-6.7					
December			0.7-1.3-2.3	none	ļ	occasional	long	0.0-0.5-1.0
	wet	0.7-1.3-2.3	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I4A (continued)

Rosewood (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 		 	L - R - H 
January	moist	0.0-0.0-0.0		none	   	none		   
	wet		6.7-6.7-6.7		i		i	İ
February	moist		2.5-3.3-5.7	none	i	none		
_	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	i	į	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none	i	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		ĺ	İ		
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
July	moist		1.6-3.3-4.9	none		none		
			6.7-6.7-6.7		!	ļ	!	
August	moist		2.5-4.9-5.7	none	ļ	none		
	wet		6.7-6.7-6.7			!		
September	moist		1.3-3.0-4.9	none		none		
0 11-	wet   moist		6.7-6.7-6.7				 	
October			1.0-2.1-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.3-0.5
November	wet   moist		0.7-6.7-6.7   0.8-1.6-3.3	none	l i	l none		l i
Noveliber	moist   wet		0.8-1.8-3.3   6.7-6.7-6.7	none	 	none		 
December	wet   moist		0.7-0.7-0.7   1.3-2.1-4.1	none	l I	l none	 	l I
Secember		1.3-2.1-4.1		none	! - <b></b>	l mone		- <b></b>

Deerwood (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L - R - H	L - R - H   		 	İ -I	İ .l	L - R - H 
January	moist	0.0-0.0-0.0	    0.8-1.6-3.3	none	 	occasional	long	0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	j	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7		ĺ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
ſay	moist		0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
June	moist		0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!	!	!	!
lugust	moist		0.8-1.6-3.3	none	ļ	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
eptember			0.5-1.3-3.0	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			!		
ctober	moist		0.3-0.8-2.5	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7			1	1	
ovember	moist		0.0-0.3-1.6	none		occasional	long	0.0-0.5-1.
ecember	wet   moist		6.7-6.7-6.7   0.5-1.3-2.5		 	  occasional	1	  0.0-0.5-1.
ecember	moist   wet		0.5-1.3-2.5   6.7-6.7-6.7	none	<del></del>	loccasional	long	10.0-0.5-1.0
	l wer	0.3-1.3-2.5	10./-0./-0.7		I I	I	1	I I
	l ————					-	·   ————	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I4A (continued)

Mavie (2 percent of the map unit)

Month	  Moisture	Top	   Bottom	Flooding	Flooding	   Ponding	   Ponding	   Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	L-R-H	rrequency	441401011	IIcquency	daracron	L-R-H
	i	<u> </u>				i	i	1
						i		
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none		none	i	i
_	wet	1.6-3.0-4.1	6.7-6.7-6.7		ĺ	į	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none	j	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		ĺ	į	i	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none	j	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7			ĺ	ĺ	ĺ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7				1	
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7			[		
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7			[		
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7			[		
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet		6.7-6.7-6.7			[	1	
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.3-0.5
	wet	1.3-2.5-4.1	6.7-6.7-6.7			[	1	
November	moist		0.8-1.6-3.3			none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Strathcona (2 percent of the map unit)

	I	I	I		ı	ı	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		
Uanuary	wet		1.0-3.0-4.1   6.7-6.7-6.7		 	l none		 
February	moist		2.5-3.3-4.9		 	l none		 
r cor dar y	wet		6.7-6.7-6.7		i	110110	i	i
March	moist		11.6-2.1-4.1		i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		į	İ	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		[			
July	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	!		!
November	moist		0.8-1.6-3.3		ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		1.3-2.1-3.8	none	!	none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!		!	!
	l					-l	.	

# Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I5A Borup loam, 0 to 2 percent slopes

Borup (75 percent of the map unit)

						1		l
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L-R-H
			ļ			ļ	!	
January	moist		1.6-3.0-4.1	•		none		
	wet		6.7-6.7-6.7					
February	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7	•				
March	moist		1.3-2.1-3.3	•		none		
	wet		6.7-6.7-6.7			ļ		
April	moist		0.0-0.5-2.5	•		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
June	moist		0.7-1.3-4.1			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9	•		none		
	wet		6.7-6.7-6.7					
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7	•				
September	moist		2.0-3.3-4.9	•		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
October	moist		1.3-1.6-4.1	•		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7	•		[		
December	moist		1.3-2.1-3.8	•		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Glyndon (9 percent of the map unit)

	Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
January   moist   0.0-0.0-0.0   2.5-4.1-6.7   none     none         wet   2.5-4.1-6.7   6.7-6.7-6.7       none         wet   3.3-4.9-6.7   6.7-6.7-6.7       none         wet   3.3-4.9-6.7   6.7-6.7-6.7       none         wet   2.5-3.9-5.7   6.7-6.7-6.7       none         April   moist   0.0-0.0-0.0   0.7-1.0-3.3   none     none         wet   0.7-1.0-3.3   6.7-6.7-6.7         none         wet   1.0-1.6-4.1   6.7-6.7-6.7       none         June   moist   0.0-0.0-0.0   1.6-2.5-4.9   none     none         wet   1.6-2.5-4.9   6.7-6.7-6.7       none         moist   0.0-0.0-0.2   2.5-3.9-6.7       none         wet   2.5-3.9-6.7   6.7-6.7-6.7       none         wet   2.5-3.9-6.7   6.7-6.7-6.7       none         moist   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.0   2.5-4.6-6.2   none     none         September   moist   0.0-0.0-0.0   2.5-4.6-6.2   none     none         wet   2.5-4.6-6.2   6.7-6.7-6.7       none         November   moist   0.0-0.0-0.0   1.6-3.0-4.1   none     none         wet   1.6-3.0-4.1   6.7-6.7-6.7		status	depth	depth	frequency	duration	frequency	duration	depth
wet   2.5-4.1-6.7   6.7-6.7-6.7   none   none   none   wet   3.3-4.9-6.7   none   none   none   none   wet   3.3-4.9-6.7   none   non		 	L - R - H 	L - R - H   		 	 	 	L - R - H 
wet   2.5-4.1-6.7   6.7-6.7-6.7   none   none   none   wet   3.3-4.9-6.7   none   none   none   none   wet   3.3-4.9-6.7   none   none   none   none   none   wet   2.5-3.9-5.7   none	Januarv	   moist	0.0-0.0-0.0	 	none	 	none	i	 
February   moist   0.0-0.0-0.0   3.3-4.9-6.7   none     none     wet   3.3-4.9-6.7   6.7-6.7-6.7     none     none         wet   3.3-4.9-6.7   6.7-6.7-6.7     none     none	2	!				i		i	i
March   moist   0.0-0.0-0.0   2.5-3.9-5.7   none     none     wet   2.5-3.9-5.7   6.7-6.7-6.7	February	moist			none		none	i	i
wet   2.5-3.9-5.7   6.7-6.7-6.7	_	wet	3.3-4.9-6.7	6.7-6.7-6.7		İ	İ	į	İ
April   moist   0.0-0.0-0.0   0.7-1.0-3.3   none     none         wet   0.7-1.0-3.3   6.7-6.7-6.7               May   moist   0.0-0.0-0.0   1.0-1.6-4.1   none     none         wet   1.0-1.6-4.1   6.7-6.7-6.7             June   moist   0.0-0.0-0.0   1.6-2.5-4.9   none     none         wet   1.6-2.5-4.9   6.7-6.7-6.7           July   dry   0.0-0.0-0.0   0.0-0.0-0.2   none     none         moist   0.0-0.0-0.2   2.5-3.9-6.7           wet   2.5-3.9-6.7   6.7-6.7-6.7         August   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   3.3-6.7-6.7           September   moist   0.0-0.0-0.0   2.5-4.6-6.2   none     none         October   moist   0.0-0.0-0.0   2.0-4.1-5.7   none     none         wet   2.5-4.6-6.2   6.7-6.7-6.7         November   moist   0.0-0.0-0.0   1.6-3.0-4.1   none     none         wet   1.6-3.0-4.1   6.7-6.7-6.7	March	moist	0.0-0.0-0.0	2.5-3.9-5.7	none	i	none	j	i
wet   0.7-1.0-3.3   6.7-6.7-6.7		wet	2.5-3.9-5.7	6.7-6.7-6.7		İ	Ì	ĺ	ĺ
May   moist   0.0-0.0-0.0   1.0-1.6-4.1   none     none         wet   1.0-1.6-4.1   6.7-6.7-6.7         June   moist   0.0-0.0-0.0   1.6-2.5-4.9   none     none         wet   1.6-2.5-4.9   6.7-6.7-6.7         July   dry   0.0-0.0-0.0   0.0-0.0-0.2   none     none         moist   0.0-0.0-0.2   2.5-3.9-6.7       wet   2.5-3.9-6.7   6.7-6.7-6.7       August   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   3.3-6.7-6.7       wet   3.3-6.7-6.7   6.7-6.7-6.7       September   moist   0.0-0.0-0.0   2.5-4.6-6.2   none     none         October   moist   0.0-0.0-0.0   2.0-4.1-5.7   none     none         wet   2.0-4.1-5.7   6.7-6.7-6.7       November   moist   0.0-0.0-0.0   1.6-3.0-4.1   none     none	April	moist	0.0-0.0-0.0	0.7-1.0-3.3	none		none		
wet   1.0-1.6-4.1   6.7-6.7-6.7		wet	0.7-1.0-3.3	6.7-6.7-6.7					
Tune   moist   0.0-0.0-0.0   1.6-2.5-4.9   none     none         wet   1.6-2.5-4.9   6.7-6.7-6.7           Tuly   dry   0.0-0.0-0.0   0.0-0.0-0.2   none     none         moist   0.0-0.0-0.2   2.5-3.9-6.7           wet   2.5-3.9-6.7   6.7-6.7-6.7         August   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   3.3-6.7-6.7           wet   3.3-6.7-6.7   6.7-6.7-6.7         September   moist   0.0-0.0-0.0   2.5-4.6-6.2   none     none         October   moist   0.0-0.0-0.0   2.0-4.1-5.7   none     none         Wet   2.0-4.1-5.7   6.7-6.7-6.7         November   moist   0.0-0.0-0.0   1.6-3.0-4.1   none     none         wet   1.6-3.0-4.1   6.7-6.7-6.7	May	moist	0.0-0.0-0.0	1.0-1.6-4.1	none		none		
wet   1.6-2.5-4.9   6.7-6.7		wet	1.0-1.6-4.1	6.7-6.7-6.7					
July   dry   0.0-0.0-0.0 0.0-0.0-0.2  none	June	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none		
moist   0.0-0.0-0.2   2.5-3.9-6.7		wet							
wet   2.5-3.9-6.7   6.7-6.7-6.7	July	1					none		
August   dry   0.0-0.0-0.0 0.0-0.0-0.3  none     none         moist   0.0-0.0-0.3 3.3-6.7-6.7              wet   3.3-6.7-6.7 6.7-6.7-6.7            September   moist   0.0-0.0-0.0 2.5-4.6-6.2  none     none         wet   2.5-4.6-6.2 6.7-6.7-6.7            October   moist   0.0-0.0-0.0 2.0-4.1-5.7  none     none         wet   2.0-4.1-5.7 6.7-6.7-6.7-6.7            November   moist   0.0-0.0-0.0 1.6-3.0-4.1  none     none         wet   1.6-3.0-4.1 6.7-6.7-6.7									
moist   0.0-0.0-0.3   3.3-6.7-6.7									
wet   3.3-6.7-6.7 6.7-6.7-6.7	August	1					none		
September   moist   0.0-0.0-0.0   2.5-4.6-6.2   none									
wet   2.5-4.6-6.2   6.7-6.7-6.7						!	!	!	!
October   moist   0.0-0.0-0.0 2.0-4.1-5.7  none     none         wet   2.0-4.1-5.7 6.7-6.7-6.7            November   moist   0.0-0.0-0.0 1.6-3.0-4.1  none     none         wet   1.6-3.0-4.1 6.7-6.7-6.7	September	!					none	!	ļ
wet  2.0-4.1-5.7 6.7-6.7-6.7								!	<u> </u>
November   moist   0.0-0.0-0.0   1.6-3.0-4.1   none     none	October	!					none	!	!
wet  1.6-3.0-4.1 6.7-6.7-6.7									!
	November						none		
a1									
December   moist   0.0-0.0-0.0 2.0-3.8-4.9   none     none	Jecember				none		none		
		I ———	I	I		l ————	1	I	I ———

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I5A (continued)

Rosewood (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H		 			L - R - H
_						ļ		
January	moist		2.0-2.5-4.9			none		
Tab		2.0-2.5-4.9	6.7-6.7-6.7     2.5-3.3-5.7		 		1	
February						none		
March		2.5-3.3-5.7	6.7-6.7-6.7     1.6-2.1-4.1		 		I I	 
March			1.6-2.1-4.1   6.7-6.7-6.7		<del></del>	none		
April			0.0-0.5-2.5		l i	  occasional	   brief	  0.0-0.3-0.!
ADIII	moist   wet		6.7-6.7-6.7		 	l	l prier	0.0-0.3-0.
May			0.5-1.3-3.3		! !	  occasional	lucry brief	  0.0-0.3-0.
nay			6.7-6.7-6.7		 	l	very brier	0.0-0.5-0.
June		0.0-0.0-0.0		none	 	   rare	  verv brief	  0.0-0.3-0.
ounc		0.8-1.6-4.1			! I	1		0.0 0.5 0.
July			1.6-3.3-4.9			l none	i	i
0 427		1.6-3.3-4.9			i		i	İ
August		0.0-0.0-0.0			i	none	i	i
			6.7-6.7-6.7		i	i .	i	i
September	moist		1.3-3.0-4.9		i	none	i	i
-	wet		6.7-6.7-6.7		i	i	i	i
October	moist	0.0-0.0-0.0	1.0-2.1-4.1	none	j	rare	very brief	0.0-0.3-0.
	wet	1.0-2.1-4.1	6.7-6.7-6.7		į	i	į -	İ
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	j	none	j	i
	wet	0.8-1.6-3.3	6.7-6.7-6.7		Ì	İ	İ	ĺ
December	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	i	none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7		I	1	1	I
	Ii	li	i		I	I	I	I

# Augsburg (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
j	status	depth	depth	frequency	duration	frequency	duration	depth
j	İ	L - R - H	L-R-H		ĺ	İ	İ	L - R - H
						-		
January	   moist	0.0-0.0-0.0	  1.6-2.1-4.1	none	 	   none		 
- i	wet	1.6-2.1-4.1	6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none	i	none	j	i
j	wet	2.0-2.6-4.9	6.7-6.7-6.7		İ	į	į	İ
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none	j	none	j	i
j	wet	1.5-2.3-4.9	6.7-6.7-6.7		ĺ	İ	İ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.5
ļ	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July			1.6-3.0-4.9			none		
ļ			6.7-6.7-6.7					
August			2.5-3.8-5.7	none		none		
ļ			6.7-6.7-6.7					
September			1.6-3.3-4.9			rare	very brief	0.0-0.3-0.5
ļ			6.7-6.7-6.7					
October			1.3-2.5-4.1	none		occasional	brief	0.0-0.3-0.5
l			6.7-6.7-6.7					
November			0.8-1.6-3.3			occasional	brief	0.0-0.3-0.5
I			6.7-6.7-6.7			1	1	
December			1.3-2.0-3.9	none		none		
ļ	wet	1.3-2.0-3.9	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I5A (continued)

Augsburg, depressional (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H				1	L - R - H
							l	
January	moist		1.0-1.6-3.0			occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7					
February	moist		1.6-3.0-3.6			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
March	moist		0.0-0.0-2.0			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-1.0			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-2.0			frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7					
June	moist		0.2-0.8-2.5			occasional	brief	0.0-0.5-1.0
	wet	0.2-0.8-2.5	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.7-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
	wet	0.7-1.6-3.3	6.7-6.7-6.7				[	
August	moist	0.0-0.0-0.0	1.6-2.5-3.6	none		rare	very brief	0.0-0.3-0.5
	wet	1.6-2.5-3.6	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.0-1.6-3.0	none		occasional	brief	0.0-0.3-0.5
	wet	1.0-1.6-3.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.7-1.3-2.6	none		occasional	brief	0.0-0.3-0.5
	wet	0.7-1.3-2.6	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.3-0.8-1.6	none		occasional	long	0.0-0.5-1.0
	wet	0.3-0.8-1.6	6.7-6.7-6.7				1	
December	moist	0.0-0.0-0.0	0.7-1.3-2.3	none		occasional	long	0.0-0.5-1.0
	wet	0.7-1.3-2.3	6.7-6.7-6.7				1	
	l		l				1	I

I7A Bowstring-Fluvaquents complex, 0 to 2 percent slopes, frequently flooded

Bowstring (45 percent of the map unit)

	I	I		I I		I	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L-R-H	 		 .	 .	L - R - H
January	   moist	  0.0-0.0-0.0	  0.5-1.3-3.3	none		frequent	very long	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7	į į		İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		frequent	very long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	frequent	very long	frequent	very long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist			very frequent	very long	frequent	very long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		•	very frequent	long	frequent	very long	0.0-0.5-1.0
	wet		6.7-6.7-6.7			ļ	ļ	
June	moist		0.0-0.0-1.6		long	frequent	very long	0.0-0.5-1.0
	wet		6.7-6.7-6.7			ļ	ļ	ļ
July	moist		0.2-0.8-2.5		brief	occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!	! _	ļ
August	moist		0.8-1.6-3.3		brief	occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7				, , ,	
September	•		0.3-1.1-3.0		brief	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist   wet		0.2-0.5-2.5 6.7-6.7-6.7		long	occasional	brief	0.0-0.3-0.5
November	wet   moist		0.0-0.3-1.6		long	  occasional	l long	10.0-0.3-0.5
November	moist   wet		6.7-6.7-6.7		long	loccasionai	l Tong	10.0-0.3-0.5
December	wet   moist		0.5-0.8-2.5			frequent	very long	0.0-0.3-0.5
pecemper	wet		6.7-6.7-6.7			rreduenc	I very rong	10.0-0.3-0.3
	l wer	0.5-0.6 <b>-</b> 2.5	0 . / - 0 . / <b>- 0 .</b> /	] 				
	I ———	l ————	I ————	I ————————————————————————————————————		· I —————	· I —————	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I7A (continued)

Fluvaquents (45 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H	 				L - R - H
<b>-</b>								
January	moist wet	0.0-0.0-0.0   0.5-1.3-2.5				frequent	very long	0.0-0.5-1.0
February	wet   moist	0.5-1.3-2.5   0.0-0.0-0.0				   frequent	l	0.0-0.5-1.0
rebruary	moist   wet	0.0-0.0-0.0   0.8-1.6-3.0				Irequent	very long	10.0-0.5-1.0
March	wet   moist	0.0-0.0-0.0			very long	   frequent	very long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7	i i		i	i	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	very frequent	very long	frequent	very long	0.0-0.7-1.
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	very frequent	long	frequent	very long	0.0-0.7-1.
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0			long	frequent	very long	0.0-0.5-1.0
	wet	0.0-0.5-1.6						
July	moist	0.0-0.0-0.0			brief	occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5						!
August	moist	0.0-0.0-0.0			brief	occasional	brief	0.0-0.5-1.0
	wet	0.8-1.6-3.0			_	!	!	
September	moist	0.0-0.0-0.0			long	occasional	brief	0.0-0.5-1.0
0 1 1	wet	0.5-1.3-2.5			1		1	
October	moist wet	0.0-0.0-0.0   0.3-0.8-2.0			long	occasional	long	0.0-0.5-1.
November	wet   moist	0.3-0.8-2.0   0.0-0.0-0.0			long	  occasional	l long	0.0-0.5-1.
MO A ETITOET	moist   wet	0.0-0.0-0.0   0.2-0.5-1.6			Tolig	l	l 1011g	1
December	wet   moist	0.2-0.3-1.6   0.0-0.0-0.0				   frequent	  very long	10.0-0.5-1.0
Secember	moist   wet	0.0-0.0-0.0   0.3-0.8-2.0				Treducit	I very rolld	10.0-0.541.0

# Hapludolls (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		] 	 	 	L - R - H 
January	moist	10.0-0.0-0.0	6.7-6.7-6.7	none	   	none	   	   
February	moist		6.7-6.7-6.7		i	none	i	i
March	moist		5.7-6.7-6.7		brief	none	i	i
	wet	5.7-6.7-6.7	6.7-6.7-6.7		İ	i	i	i
April	moist	0.0-0.0-0.0	4.9-6.7-6.7	rare	brief	none	j	j
	wet	4.9-6.7-6.7	6.7-6.7-6.7		İ	ĺ	İ	ĺ
May	moist	0.0-0.0-0.0	5.7-6.7-6.7	rare	brief	none		
	wet	5.7-6.7-6.7	6.7-6.7-6.7				[	
June	dry	0.0-0.0-0.0		rare	very brief	none		
	moist	0.0-0.0-0.3					ļ	
July	dry		0.0-0.0-0.5	-	very brief	none	ļ	!
	moist	0.0-0.0-0.5					!	!
August	dry		0.0-0.0-0.5	-	very brief	none		
a	moist   dry		6.7-6.7-6.7   0.0-0.0-0.5		   verv brief		1	
September	ary   moist	0.0-0.0-0.0			very brier	none		
October	moist		6.7-6.7-6.7   6.7-6.7-6.7		   brief	l none	I I	l I
November	moist		6.7-6.7-6.7   6.7-6.7-6.7		brief	none		 
rombot	wet	5.7-6.7-6.7					i	i
December	moist		6.7-6.7-6.7	none		none	i	
	i				İ	İ	İ	

Water (5 percent of the map unit) (not applicable)

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I8A Cathro muck, 0 to 1 percent slopes

Cathro (80 percent of the map unit)

			1		1	1		
Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ .I	L-R-H	L-R-H	 	 	İ	İ I	L - R - H 
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	 	occasional	long	0.0-0.3-0.5
-	wet	•	6.7-6.7-6.7	•	İ	İ	i	i
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	i	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7	ĺ	İ	İ	į	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					[
April	moist		0.0-0.0-0.8	•		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				[
May	moist		0.0-0.0-1.3	•		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
June	moist		0.0-0.0-1.6	•		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•	!	!		!
July	moist		0.2-0.8-2.5		!	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•			!	
August	moist		0.8-1.6-3.3	•	ļ	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ	!	
September			0.3-1.1-3.0	•		rare	brief	0.0-0.3-0.5
0-1-1	wet		6.7-6.7-6.7	•		1	1 1	
October	moist   wet		0.2-0.5-2.5	•		occasional	brief	0.0-0.3-0.5
November			0.0-0.3-1.6	•	 	  occasional	1 1	1000000
November	moist   wet		6.7-6.7-6.7			Occasional	long	0.0-0.3-0.5
December	wet   moist		0.5-0.8-2.5	•	 	  occasional	llong	  0.0-0.3-0.5
peceuper	moist		6.7-6.7-6.7	•	 	Occasional	l rong	10.0-0.3-0.3
	l wer	10.5-0.0-2.5	10.7-0.7-0.7	 	I I	I I	I I	I I
	1	l ——————	l ————		I	I ————	I ————	I ————

Hamre (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H
January	moist	0 0 0 0 0		none		 	long	    0.0-0.5-1.0
January			0.8-1.8-3.3   6.7-6.7-6.7	none	 	l	l 1011g	0.0-0.5-1.0
February			1.6-2.5-4.1	none	 	  occasional	llong	I  0.0-0.5-1.0
I CDI dai y			6.7-6.7-6.7	110110	i i		l	0.0 0.5 1.0 
March			0.0-0.0-2.5	none	i	occasional	long	  0.0-0.5-1.0
	wet	0.0-0.0-2.5	  6.7-6.7-6.7		i	i	i	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	j	frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7		ĺ	İ	Ì	ĺ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7			1		
June			0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
	wet	0.0-0.5-1.6	6.7-6.7-6.7					
July	moist		0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
August	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!			
September	moist		0.5-1.3-3.0	none	ļ	occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7			!	!	
October			0.3-0.8-2.5	none		occasional	brief	0.0-0.5-1.0
November	wet     moist		6.7-6.7-6.7			  occasional	1	  0.0-0.5-1.0
November	: :		0.0-0.3-1.6   6.7-6.7-6.7	none		occasional	long	10.0-0.5-1.0
December	wet     moist		6.7-6.7-6.7   0.5-1.3-2.5	none	I I	  occasional	   long	  0.0-0.5-1.0
pecemper	moist		0.5-1.3-2.5   6.7-6.7-6.7	none	 	loccastonat	l rond	0.0-0.5-1.0
	l wer	0.5-1.5-2.5	0 • / - 0 • / - 0 • /		1	!	!	ļ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I8A (continued)

Northwood (3 percent of the map unit)

Month	  Moisture	l Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L - R - H
	i	İ	İ		i	.i	.i	i
T	   moist		  0.8-1.6-3.3	none		  occasional	l long	  0.0-0.5-1.
January	moist   wet		0.8-1.6-3.3  6.7-6.7-6.7			loccasionai	l rong	10.0-0.5-1.
February	wet   moist		1.6-2.5-4.1		l I	  occasional	   long	  0.0-0.5-1.
rebruary	wet		6.7-6.7-6.7		 	Occasional	i Iong	10.0-0.5-1.
March	wet   moist		0.0-0.0-2.5		 	  occasional	   long	  0.0-0.5-1.
1101 011	wet		6.7-6.7-6.7		! I		l	0.0 0.5 1.
April	moist		0.0-0.0-0.8			frequent	long	  0.0-0.5-1.
	wet		6.7-6.7-6.7		i		5	i
May	moist		0.0-0.0-1.3		i	frequent	long	0.0-0.5-1.
_	wet	0.0-0.0-1.3	6.7-6.7-6.7		į	į -	į	İ
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none	j	frequent	brief	0.0-0.5-1.
	wet	0.0-0.5-1.6	6.7-6.7-6.7		ĺ	İ	Ì	ĺ
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none	i	rare	very brief	0.0-0.3-0.
	wet	0.2-0.8-2.5	6.7-6.7-6.7					l
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist		0.5-1.3-3.0			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
October	moist		0.3-0.8-2.5			occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
November	moist		0.0-0.3-1.6		ļ	occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7			[		
December	moist		0.5-1.3-2.5	none	ļ	occasional	long	0.0-0.5-1.
	wet	0.5-1.3-2.5	6.7-6.7-6.7		!	ļ.	!	!

## Roliss (3 percent of the map unit)

	I	ı	1		I	I	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		
Uanuary	wet		6.7-6.7-6.7		 	l none		 
February	moist		2.5-3.3-4.9		 	l none		 
r cor dar y	wet		6.7-6.7-6.7		! I	1		! !
March	moist		11.3-2.1-3.3			l none	i	! 
	wet		6.7-6.7-6.7		i		i	i
April	moist		0.0-0.5-2.5		i	occasional	brief	0.0-0.3-0.
-	wet		6.7-6.7-6.7		i			
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.3-0.8-3.3	6.7-6.7-6.7		į	i	İ	İ
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.7-1.3-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7		[	1		
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7		[			
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		[			
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		ļ	<u> </u>		
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7		ļ	ļ	!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I8A (continued)

Berner (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
						-	ļ	
January	   moist	0.0-0.0-0.0	  0.5-1.3-3.3	none	 	  occasional	   long	  0.0-0.3-0.5
_	wet	0.5-1.3-3.3	6.7-6.7-6.7		i	i	i	İ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	j	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7				[	
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.0-0.0-1.6			occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7				ļ	
August			0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7				ļ	
September			0.3-1.1-3.0		ļ	rare	brief	0.0-0.3-0.5
			6.7-6.7-6.7		!		!	!
October			0.2-0.5-2.5		ļ	occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7		!		!	!
November			0.0-0.3-1.6		!	occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7		!	1	! _	
December			0.5-0.8-2.5	none	!	occasional	long	0.0-0.3-0.5
	wet	0.5-0.8-2.5	6.7-6.7-6.7					

Kratka (2 percent of the map unit)

				<u> </u>	1	1		
Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H	   	İ	İ	į	L-R-H
	ļ							
January	moist		1.6-3.0-4.1			none	ļ	ļ
			6.7-6.7-6.7	•			!	!
February			2.5-3.3-4.9	•	ļ	none	ļ	!
	wet		6.7-6.7-6.7		!	!	!	!
March			1.6-2.1-4.1	•	ļ	none	ļ	!
			6.7-6.7-6.7	•	!			!
April	moist		0.0-0.5-2.5	•	ļ	occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7	•	!			!
May	moist		0.5-0.8-3.3		ļ	occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			!		
June	•		0.8-1.6-4.1	•		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7			!		
July			1.6-3.3-4.9			none		
			6.7-6.7-6.7			!		
August	moist		2.5-4.1-5.7			none		
			6.7-6.7-6.7	•				
September			1.6-3.3-4.9			none		
			6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7	•				
November	moist		0.8-1.6-3.3	•		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7	•				
December	moist		1.3-2.1-3.8	•		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	1	I	1	1	I	1	1	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I8A (continued)

Seelyeville (2 percent of the map unit)

Month	   Madestona		Dotton	Flooding	Flooding	Ponding	Ponding	Ponding
Month	Moisture   status	Top depth	Bottom depth	frequency	duration	frequency	duration	depth
	status	L-R-H	depth  L-R-H	rrequency	duration	frequency	duration	L-R-H
	 	L - K - п	L - к - п		[ ]	l I	 	L - K - п
	l ————	l ————————————————————————————————————	l ————————————————————————————————————			l ————————————————————————————————————		l ————————————————————————————————————
January	   moist	  0.0-0.0-0.0	  0.5-1.0-3.3	none		occasional	llong	  0.0-0.3-0.5
_	wet	0.5-1.0-3.3	6.7-6.7-6.7			i	i	İ
February	moist	0.0-0.0-0.0	1.3-1.6-4.1	none		occasional	long	0.0-0.3-0.5
	wet	1.3-1.6-4.1	6.7-6.7-6.7			İ	į	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7			ĺ	ĺ	
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.0-0.3-1.6	none		frequent	brief	0.0-0.5-1.0
	wet	0.0-0.3-1.6	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.0-0.8-2.5	none		occasional	very brief	0.0-0.3-0.5
	wet	0.0-0.8-2.5	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	0.5-1.6-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-1.6-3.3	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	0.3-1.1-3.0	none		occasional	very brief	0.0-0.3-0.5
	wet	0.3-1.1-3.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
December	moist		0.5-0.8-2.5			occasional	long	0.0-0.3-0.5
	wet	0.5-0.8-2.5	6.7-6.7-6.7					

I9A Clearwater clay, 0 to 2 percent slopes

Clearwater (80 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	j I	L-R-H	L-R-H		j I		į	L-R-H
January	moist	0.0-0.0-0.0	0.8-2.1-4.1	none		none		
	wet		6.7-6.7-6.7		İ		i	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none	j	i
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none	i	none		i
	wet	0.3-1.3-3.3	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0		none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.0-1.6						
May	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ		!	
June	moist		0.8-1.3-3.3	none	ļ	occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3				ļ	!	
July	moist		1.3-2.1-4.1	none		rare	very brief	0.0-0.2-0.3
3	wet   moist	11.3-2.1-4.1	6.7-6.7-6.7   1.6-3.0-4.9		 			  0.0-0.2-0.3
August	moist   wet	0.0-0.0-0.0   1.6-3.0-4.9		none	 	rare	very brier	0.0-0.2-0.3 
September	wet   moist	0.0-0.0-0.0		none	! !	   rare	lvery brief	  0.0-0.2-0.3
pepcember	wet	11.3-2.5-4.1		none	 	l	very brier	0 • 0 - 0 • <u>2</u> - 0 • 5
October	moist		0.8-1.6-3.3	none	! !	occasional	  verv hrief	  0.0-0.2-0.3
OCCODEL	wet		6.7-6.7-6.7	110110	! 			0.0 0.2 0.5 
November	moist		0.5-1.3-2.5	none	i	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		i		1	
December	moist	0.0-0.0-0.0		none	i	none	i	i
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	į	İ	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I9A (continued)

Clearwater, very cobbly (5 percent of the map unit)

Month	  Moisture	Top	Bottom	Flooding	Flooding	   Ponding	   Ponding	Ponding
Month	status	depth	depth	frequency	duration	frequency	duration	depth
	scacus	L-R-H	L-R-H	l	duracion	Treducticy	duracion	L-R-H
	1	1 - к - н	L - K - H			 	 	L - K - H
January	moist	0.0-0.0-0.0	0.8-2.1-4.1	none		none	i	
_	wet	0.8-2.1-4.1	6.7-6.7-6.7		ĺ	İ	į	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none	j	
	wet	1.6-2.5-4.9	6.7-6.7-6.7			İ	İ	ĺ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none	j	
	wet	0.3-1.3-3.3	6.7-6.7-6.7			ĺ	ĺ	
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		rare	very brief	0.0-0.2-0.3
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		rare	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7					
September			1.3-2.5-4.1			rare	very brief	0.0-0.2-0.3
	wet	•	6.7-6.7-6.7					
October	moist		0.8-1.6-3.3			occasional	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7	!				
November			0.5-1.3-2.5			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7	!				
December	moist		0.8-1.6-3.3			none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
						l	l	

Reis (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	11.6-2.1-4.1	none		none	 	 
2			6.7-6.7-6.7		i		i	i
February	moist		2.0-2.6-4.9	none	i	none		i
_	wet	2.0-2.6-4.9	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	0.8-2.0-3.9	none	i	none	i	i
	wet	0.8-2.0-3.9	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		none		
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.3-0.8-3.0	none		none		
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-3.6	none		none		
	wet		6.7-6.7-6.7					
July	moist		1.6-2.8-4.6	none		none		
			6.7-6.7-6.7					
August	moist		2.5-3.6-5.4	none		none		ļ
	wet		6.7-6.7-6.7		!		!	!
September			1.6-3.1-4.6	none	ļ	none	ļ	!
			6.7-6.7-6.7					ļ
October	moist		1.1-2.0-4.1	none		none		
			6.7-6.7-6.7					
November	moist		0.7-1.6-3.3	none		none		
D	wet		6.7-6.7-6.7   1.1-2.0-3.8		 		 	 
December	moist   wet		1.1-2.0-3.8   6.7-6.7-6.7	none		none		
	wet	1 2 - 0 - 3 - 8	10.7-0.7-0.7			l	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I9A (continued)

Clearwater, depressional (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		 	l I	 	L - R - H
						_		
January	moist		0.5-1.3-2.5	none	!	occasional	long	0.0-0.5-1.
	•		6.7-6.7-6.7					
February	•		0.8-1.6-3.0	none	!	occasional	long	0.0-0.5-1.
			6.7-6.7-6.7					
March			0.0-0.0-1.6	none	ļ	occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
April			0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
			6.7-6.7-6.7					
June	•		0.0-0.5-1.6	none		occasional	long	0.0-0.5-1.
			6.7-6.7-6.7					
July			0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.
	•		6.7-6.7-6.7					
August	moist		0.8-1.6-3.0	none		occasional	brief	0.0-0.5-1.
	wet	0.8-1.6-3.0	6.7-6.7-6.7					
September	moist		0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.2-0.5-1.6	none		occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	long	0.0-0.5-1.
	wet	0.3-0.8-2.0	6.7-6.7-6.7		I		I	1

Espelie (3 percent of the map unit)

	I	I	I		ı	ı	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-2.1-4.1	none		none		
Uanuar y	wet		6.7-6.7-6.7		 	l none		 
February	moist		2.0-2.6-4.9		 	l none		! !
cordary	wet		6.7-6.7-6.7		i	110110	i	i
March	moist		11.5-2.3-4.9		i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.5
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		į	İ	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	j	occasional	brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		[			
July	moist		1.6-3.0-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	!		!
November	moist		0.8-1.6-3.3		ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		1.3-2.0-3.9	none	!	none	ļ	!
	wet	1.3-2.0-3.9	6.7-6.7-6.7		!		!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I9A (continued)

Foxlake (2 percent of the map unit)

Month	  Moisture	l Ton	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
Month	status	Top depth	depth	frequency	duration	frequency	duration	depth
	Status 	depth   L - R - H	depth	rrequency	duration	Trequency	duration	L-R-H
		L - K - H	L - K - H		 	 		L - K - H
		l ————————————————————————————————————	l ————		l ————————————————————————————————————	l	l	l ————————————————————————————————————
January	moist	0.0-0.0-0.0	  0.8-2.1-4.1	none	 	none		 
_	wet	0.8-2.1-4.1	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none	j	i
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none	j	i
	wet	0.3-1.3-3.3	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		rare	very brief	0.0-0.2-0.3
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		rare	very brief	0.0-0.2-0.3
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7					
October	moist		0.8-1.6-3.3	!		occasional	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7	!				
November	moist		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	!				
December	moist		0.8-1.6-3.3	!		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					

Hattie (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	i I	none	j I	i I
-	wet	4.1-5.7-6.7	6.7-6.7-6.7		İ	İ	i	İ
February	moist	0.0-0.0-0.0	4.9-6.7-6.7	none	j	none	j	i
	wet	4.9-6.7-6.7	6.7-6.7-6.7		Ì	ĺ	ĺ	ĺ
March	moist	0.0-0.0-0.0	4.1-5.7-6.7	none		none		
	wet	4.1-5.7-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet		6.7-6.7-6.7					
June	moist		2.0-3.0-5.7	none		none		
			6.7-6.7-6.7					
July			2.5-4.1-6.7	none		none		
	wet		6.7-6.7-6.7					
August			3.3-4.9-6.7	none	!	none	!	
			6.7-6.7-6.7		!	!	!	
September			3.3-4.6-6.7	none		none		ļ
			6.7-6.7-6.7					
October			2.5-4.1-5.7	none		none		
			6.7-6.7-6.7					l
November	: :		3.3-4.6-6.7	none		none		
December	wet     moist		6.7-6.7-6.7   3.6-4.9-6.7		 		I	l I
December			3.6-4.9-6.7   6.7-6.7-6.7	none		none		 
	wet	3.0-4.9-6.7	0.7-0.7-6.7		!	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I9A (continued)

Huot (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H				 	L - R - H
	<u> </u>							
January	moist		4.6-5.4-6.7	none		none		
February	wet     moist		6.7-6.7-6.7   4.9-5.7-6.7	none		l none	l I	 
rebruary			4.9-5.7-6.7   6.7-6.7-6.7	none		l none	 	 
March	wet     moist		3.3-4.6-6.7	none		l none	! !	<u> </u>
Mar CII			6.7-6.7-6.7	none		none	 	 
April	moist		1.6-2.5-4.6	none		none	i	i
-	wet		6.7-6.7-6.7			i	i	i
May	moist	0.0-0.0-0.0	2.3-3.0-5.2	none		none	j	j
	wet	2.3-3.0-5.2	6.7-6.7-6.7			İ	ĺ	ĺ
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
			2.8-3.8-6.2					
			6.7-6.7-6.7					
July	1 - 1		0.0-0.0-0.5	none		none	ļ	ļ
			3.8-4.6-6.7			!	!	!
			6.7-6.7-6.7					
August	dry moist		0.0-0.0-0.7	none		none		
			5.2-6.7-6.7   6.7-6.7-6.7					
September			0.7-0.7-0.7   0.0-0.0-0.5	none		l none	l I	l I
september	moist		3.8-4.1-6.7	none		l none	 	 
			6.7-6.7-6.7			i	İ	i
October			3.3-3.8-6.7	none		l none	i	i
			6.7-6.7-6.7				İ	i
November	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none	i	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7			İ	İ	İ
December	moist	0.0-0.0-0.0	3.8-4.1-5.7	none		none	j	j
	wet	3.8-4.1-5.7	6.7-6.7-6.7					

\*

Illa Deerwood muck, 0 to 1 percent slopes

Deerwood (85 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H					L - R - H
January	moist		0.8-1.6-3.3	none		loccasional	long	0.0-0.5-1.0
oanuar y	wet		6.7-6.7-6.7	none		l	l	0.0-0.5-1.\ 
February	moist		1.6-2.5-4.1	none		loccasional	long	  0.0-0.5-1.0
- 02- 44-7	wet		6.7-6.7-6.7		i			
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	İ	į	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	j	frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist		0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7		ļ	ļ		!
July	moist		0.2-0.8-2.5	none	ļ	rare	very brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7			ļ		
August	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
a	wet   moist		6.7-6.7-6.7   0.5-1.3-3.0			  occasional	   brief	  0.0-0.3-0.5
September	moist   wet		0.5-1.3-3.0   6.7-6.7-6.7	none		loccasional	Driei	10.0-0.3-0.3
October	wet   moist		0.3-0.8-2.5	none		occasional	   brief	  0.0-0.5-1.0
occoper	wet		6.7-6.7-6.7	none		l	Dilei	0.0-0.5-1.\ 
November	moist		0.0-0.3-1.6	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		i		5	
December	moist		0.5-1.3-2.5	none	i	occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

#### I11A (continued)

Rosewood (6 percent of the map unit)

Month	  Moisture	l Ton	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
Month	status	Top depth	depth	frequency	duration	frequency	duration	depth
	Status 	depth   L - R - H	depth   L - R - H	rrequency	duration	Trequency	duracion	L-R-H
		L - K - H	I - K - H		 	 	 	L - K - H
		l ————————————————————————————————————	l		l ————————————————————————————————————	l		l ————————————————————————————————————
January	moist	0.0-0.0-0.0	  2.0-2.5-4.9	none	 	none		 
_	wet	2.0-2.5-4.9	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	i	none	j	i
	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none	j	
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7			ĺ	ĺ	
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.9-5.7	none		none		
	wet	2.5-4.9-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.3-3.0-4.9	none		none		
	wet	1.3-3.0-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.0-2.1-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	1.0-2.1-4.1	6.7-6.7-6.7					
November	moist		0.8-1.6-3.3			none		
	wet		6.7-6.7-6.7	!				
December	moist		1.3-2.1-4.1	!		none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
	l					l	l	

## Markey (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 	L - R - H 
January	moist	0.0-0.0-0.0	    0.5-1.3-3.3	none	i I	  occasional	long	    0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	j	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7		[			
March			0.0-0.0-2.5			occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7					
- !			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7		!			!
June			0.0-0.0-1.6		ļ	occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7				 	
August			0.8-1.6-3.3   6.7-6.7-6.7			rare	very brier	0.0-0.3-0.5
September			0.7-6.7-6.7   0.3-1.1-3.0		 	   rare	   brief	  0.0-0.3-0.5
september			0.3-1.1-3.0   6.7-6.7-6.7			rare	l prier	1
October			0.7-0.7-0.7   0.2-0.5-2.5		 	  occasional	   brief	  0.0-0.3-0.5
occoper			6.7-6.7-6.7		 		Dilei	0.0-0.5-0.
November			0.0-0.3-1.6		¦	occasional	long	  0.0-0.3-0.5
			6.7-6.7-6.7		i			
December			0.5-0.8-2.5		i	occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7		i			
	i		i ' '		i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I11A (continued)

Strathcona (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 			L - R - H
January	moist   wet		1.6-3.0-4.1   6.7-6.7-6.7	none		none		
February	wet   moist		6.7-6.7-6.7    2.5-3.3-4.9		1	l mone	l i	l I
rebruary			2.5-3.3-4.9   6.7-6.7-6.7			none		
March			0.7-0.7-0.7   1.6-2.1-4.1		I I	l none		l I
March	moist   wet		1.0-2.1-4.1   6.7-6.7-6.7			i none		 
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5			occasional	   brief	  0.0-0.3-0.
APILI	wet		6.7-6.7-6.7			l	Dilei	0 • 0 = 0 • 5 = 0 • ·
May	moist		0.5-0.8-3.3		i	loccasional	  verv brief	  0.0-0.3-0.
2	wet		6.7-6.7-6.7		İ			
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		i	i	1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	i	none	i	i
_	wet	1.6-3.3-4.9	6.7-6.7-6.7		į	i	İ	İ
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none	i	none	j	i
	wet	2.5-4.1-5.7	6.7-6.7-6.7		İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		i
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
						.		

Syrene (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	_   L - R - H		  -		į i	L - R - н
January	moist		    2.0-3.0-4.9	none		none		   
- unuun 7			6.7-6.7-6.7		i		i	i
ebruary			2.5-3.3-5.7		i	none	i	i
_	wet	2.5-3.3-5.7	6.7-6.7-6.7		i	i	i	i
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	j	none	j	j
	wet	1.6-2.5-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none		occasional	very brief	0.0-0.3-0
	wet	0.0-0.3-2.5	6.7-6.7-6.7		[			[
ſay	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		rare	very brief	0.0-0.3-0
	wet	0.5-0.8-3.3	6.7-6.7-6.7		1			1
June			1.0-1.6-2.5	none		rare	very brief	0.0-0.1-0
			6.7-6.7-6.7					
July			1.6-2.5-4.9			none		
			6.7-6.7-6.7					
August			2.5-3.3-5.7	none		none		
			6.7-6.7-6.7		!	!	!	!
September			1.3-2.5-4.9		ļ	none	!	!
			6.7-6.7-6.7			ļ	!	!
October			1.0-2.1-4.1	none		none		ļ
			6.7-6.7-6.7			ļ		!
lovember			0.8-1.6-3.3			none		
			6.7-6.7-6.7		1			1
December	!		1.6-2.1-4.1   6.7-6.7-6.7	none		none		
	wet	1 1.0-2.1-4.1	0 • / - 0 • 7 - 6 • 7   		[ [	I I		] 
	I ———	l ————	l ————————————————————————————————————			-	·	l ————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I11A (continued)

Venlo (2 percent of the map unit)

Month	  Moisture	Top	Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
	İ		İ		İ	İ	İ	İ
January	moist		0.8-1.6-3.0			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
February	moist	0.0-0.0-0.0	2.0-3.0-3.6	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
March	moist		0.0-0.5-2.0	•		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
April	moist		0.0-0.0-1.0			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
May	moist		0.0-0.5-2.0	•		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.3-1.3-2.6	•		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
July	moist		1.0-2.1-3.3			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7	•				
August	moist		2.0-3.0-3.8	•		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
September			1.0-2.1-3.3	•		rare	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
October	moist		0.7-1.6-2.6			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
November	moist		0.3-1.3-2.0	•		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
December	moist		0.7-1.6-2.5	•		occasional	long	0.0-0.5-1.0
	wet	0.7-1.6-2.5	6.7-6.7-6.7					

\*

I12A Eckvoll loamy fine sand, 0 to 3 percent slopes

Eckvoll (70 percent of the map unit)

Status   depth   depth   frequency   duration   frequency   duration   decorate   L - R - H   L - R			1			1	1	I	I
L - R - H   L - R - H     L - R - H	Month								Ponding
January moist   0.0-0.0-0.0   4.6-5.4-6.7   none     none         wet   4.6-5.4-6.7   6.7-6.7-6.7   none     none         wet   4.9-5.7-6.7   6.7-6.7-6.7   none     none         wet   4.9-5.7-6.7   6.7-6.7-6.7       March   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none     none       wet   3.3-4.6-6.7   6.7-6.7-6.7     April   moist   0.0-0.0-0.0   2.1-2.5-4.6   none     none     none       wet   2.1-2.5-4.6   6.7-6.7-6.7     May   moist   0.0-0.0-0.0   2.6-3.1-5.2   none     none         wet   2.6-3.1-5.2   6.7-6.7-6.7     June   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.0   0.0-0.0-0.3   none     none         July   dry   0.0-0.0-0.0   0.0-0.0-0.5   none     none         moist   0.0-0.0-0.8   3.8-4.9-6.7   wet   3.8-4.9-6.7   6.7-6.7-6.7     August   dry   0.0-0.0-0.8   5.2-6.7-6.7     September   dry   0.0-0.0-0.3   3.8-4.1-6.7   none     none     none         October   moist   0.0-0.0-0.3   3.8-4.1-6.7   none     none       none         Wet   3.3-3.8-6.7   6.7-6.7-6.7   none     none     none         December   moist   0.0-0.0-0.0   3.8-4.1-6.7   none			L - R - H 	L - R - H   		 		 	L - R - F 
wet	Januarv	moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	 	 
wet		wet	4.6-5.4-6.7	6.7-6.7-6.7		İ	İ	i	i
March         moist         0.0-0.0-0.0         3.3-4.6-6.7         none          none           none </td <td>February</td> <td>moist</td> <td>0.0-0.0-0.0</td> <td>4.9-5.7-6.7</td> <td>none</td> <td></td> <td>none</td> <td>i</td> <td>i</td>	February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none		none	i	i
wet	i	wet	4.9-5.7-6.7	6.7-6.7-6.7		İ	İ	į	İ
April   moist   0.0-0.0-0.0   2.1-2.5-4.6   none     none     wet   2.1-2.5-4.6   6.7-6.7-6.7     none       none	March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none	i	none	j	i
wet   2.1-2.5-4.6   6.7-6.7-6.7	į	wet	3.3-4.6-6.7	6.7-6.7-6.7		j	İ	İ	İ
May         moist         0.0-0.0-0.0   2.6-3.1-5.2           none          none           none <th< td=""><td>April  </td><td>moist</td><td>0.0-0.0-0.0</td><td>2.1-2.5-4.6</td><td>none</td><td> </td><td>none</td><td> </td><td> </td></th<>	April	moist	0.0-0.0-0.0	2.1-2.5-4.6	none		none		
wet   2.6-3.1-5.2   6.7-6.7-6.7	- 1	wet	2.1-2.5-4.6	6.7-6.7-6.7					
June   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   2.6-3.8-6.2                 wet   2.6-3.8-6.2   6.7-6.7-6.7               July   dry   0.0-0.0-0.0   0.0-0.0-0.5   none     none         moist   0.0-0.0-0.5   3.8-4.9-6.7               wet   3.8-4.9-6.7   6.7-6.7-6.7               August   dry   0.0-0.0-0.0   0.0-0.0-0.8   none     none         moist   0.0-0.0-0.8   5.2-6.7-6.7             wet   5.2-6.7-6.7   6.7-6.7-6.7             September   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   3.8-4.1-6.7             wet   3.8-4.1-6.7   6.7-6.7-6.7               October   moist   0.0-0.0-0.0   3.3-3.8-6.7   none     none         November   moist   0.0-0.0-0.0   3.8-4.1-6.2   none     none         December   moist   0.0-0.0-0.0   3.8-4.1-6.2   none     none	May	moist	0.0-0.0-0.0	2.6-3.1-5.2	none		none		
moist   0.0-0.0-0.3   2.6-3.8-6.2		wet	2.6-3.1-5.2	6.7-6.7-6.7					
wet   2.6-3.8-6.2   6.7-6.7-6.7		-					none		
July dry 0.0-0.0-0.0 0.0-0.0-0.5 none none none none       moist   0.0-0.0-0.5   3.8-4.9-6.7	ļ								
moist   0.0-0.0-0.5   3.8-4.9-6.7	ļ								
wet   3.8-4.9-6.7   6.7-6.7-6.7	July	-				ļ	none	ļ	ļ
August dry 0.0-0.0-0.0 0.0-0.0-8 none none none none       moist   0.0-0.0-0.8   5.2-6.7-6.7     wet   5.2-6.7-6.7   6.7-6.7-6.7     September dry   0.0-0.0-0.0   0.0-0.0-0.3     moist   0.0-0.0-0.3   3.8-4.1-6.7     wet   3.8-4.1-6.7   6.7-6.7-6.7     October   moist   0.0-0.0-0.0   3.3-3.8-6.7     moist   0.0-0.0-0.0   2.5-3.3-5.6     November   moist   0.0-0.0-0.0   2.5-3.3-5.6     mone     none       wet   2.5-3.3-5.6   6.7-6.7-6.7     December   moist   0.0-0.0-0.0   3.8-4.1-6.2     none     none	ļ					!	!	!	!
moist   0.0-0.0-0.8   5.2-6.7-6.7	ļ					!	!	!	!
wet   5.2-6.7-6.7   6.7-6.7-6.7	August	-				ļ	none	!	!
September         dry         0.0-0.0-0.0   0.0-0.0-0.3   none           none	ļ								
moist   0.0-0.0-0.3   3.8-4.1-6.7	!								
wet   3.8-4.1-6.7   6.7-6.7-6.7	September	-					none		
October   moist   0.0-0.0-0.0   3.3-3.8-6.7   none     none         wet   3.3-3.8-6.7   6.7-6.7-6.7           November   moist   0.0-0.0-0.0   2.5-3.3-5.6   none     none         wet   2.5-3.3-5.6   6.7-6.7-6.7         December   moist   0.0-0.0-0.0   3.8-4.1-6.2   none     none	!								!
wet   3.3-3.8-6.7   6.7-6.7-6.7	0-1-1								!
November   moist   0.0-0.0-0.0   2.5-3.3-5.6   none     none         wet   2.5-3.3-5.6   6.7-6.7-6.7           December   moist   0.0-0.0-0.0   3.8-4.1-6.2   none     none	October						none		
wet   2.5-3.3-5.6   6.7-6.7-6.7	Norrombon					 		 	1
December   moist   0.0-0.0-0.0   3.8-4.1-6.2   none     none	MOASHIDEL					 	l none	 	
	Dogombor					l I	l none	l I	! !
WEC   J.O I I	December					- <b></b>	l none	<b>-</b>	
	-	wet	3.0-4.1 <b>-</b> 0.2	0 . / - 0 . / <del>-</del> 0 . /		l I	I I	] 	] 

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I12A (continued)

Kratka (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 			L - R - H
January	moist   wet		1.6-3.0-4.1   6.7-6.7-6.7	none		none		
February	wet   moist		6.7-6.7-6.7    2.5-3.3-4.9		1	l mone	l i	l I
rebruary			2.5-3.3-4.9   6.7-6.7-6.7			none		
March			0.7-0.7-0.7   1.6-2.1-4.1		I I	l none		l I
March	moist   wet		1.0-2.1-4.1   6.7-6.7-6.7			i none		 
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5			occasional	   brief	  0.0-0.3-0.
APILI	wet		6.7-6.7-6.7			l	Dilei	0 • 0 = 0 • 5 = 0 • ·
May	moist		0.5-0.8-3.3		i	loccasional	  verv brief	  0.0-0.3-0.
2	wet		6.7-6.7-6.7		İ			
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		i	i	1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	i	none	i	i
_	wet	1.6-3.3-4.9	6.7-6.7-6.7		į	i	İ	İ
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none	i	none	j	i
	wet	2.5-4.1-5.7	6.7-6.7-6.7		İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		i
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
						.		

Smiley (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
i	status	depth	depth	frequency	duration	frequency	duration	depth
į	į	L - R - H	L-R-H		  -	į	į i	L-к-н
								ļ
January			1.6-3.0-4.1	none		none	ļ	
!			6.7-6.7-6.7			!		!
February			2.5-3.3-4.9	none		none		
!			6.7-6.7-6.7			!		
March			1.3-2.1-3.3	none		none		
I			6.7-6.7-6.7					
April			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
. !			6.7-6.7-6.7			!		
May			0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.
_ !			6.7-6.7-6.7			!		
June			0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
July			1.6-3.0-4.9   6.7-6.7-6.7	none		none		
ا ۔۔۔۔۔۔			6.7-6.7-6.7     2.5-3.8-5.7		 			
August			2.5-3.8-5.7   6.7-6.7-6.7	none		none		
  September			2.0-3.3-4.9		 		 	  0.0-0.3-0.
sebremmer			2.0-3.3-4.9   6.7-6.7-6.7	none	 	rare	very prier	10.0-0.3-0.
october			1.3-1.6-4.1	none	l I	   rare	  very brief	0 0 0 3 0 1
occoper			6.7-6.7-6.7	none	 	Tale	very prier	0.0-0.3-0.
ا   Tovember			0.8-1.3-3.3	none	l I	  occasional	   brief	I  0.0-0.3-0.
io Aemper			6.7-6.7-6.7	110116	I I	l	l prier	0.0-0.3 <b>-</b> 0.
l December			1.3-2.1-3.8	none	l 	l none		l I
Secember			1.3-2.1-3.6   6.7-6.7-6.7	none	- <b></b>	i none	-3 <b>-</b>	 
!	wet	1.3-2.1-3.0	0.7-0.7-0.7		!	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I12A (continued)

Linveldt (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H				 	L - R - H
	į							
January	moist		4.8-5.4-6.7	none		none		
February	wet   moist		6.7-6.7-6.7   5.2-5.7-6.7				l I	
rebruary	moist   wet		5.2-5.7-6.7   6.7-6.7-6.7	none	<del></del>	none	 	
March	wet   moist		3.3-4.6-6.7	none		l none	l I	! !
mai cii	wet		6.7-6.7-6.7	none	 		I	 
April	moist		11.3-2.5-4.9	none		none	i	i
-	wet		6.7-6.7-6.7			İ	i	i
May	moist	0.0-0.0-0.0	2.0-3.0-5.6	none		none	i	i
	wet	2.0-3.0-5.6	6.7-6.7-6.7			İ	İ	İ
June	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none	i	i
	moist	0.0-0.0-0.5	2.6-3.6-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
	moist		3.9-5.4-6.7				!	!
			6.7-6.7-6.7			ļ	!	!
August	dry		0.0-0.0-1.0	none		none		
	moist		5.4-6.7-6.7					!
September	wet   dry		6.7-6.7-6.7   0.0-0.0-0.3	none		l none		
september	moist		0.0-0.0-0.3   4.1-4.6-6.7	none		l none	 	 
	wet		6.7-6.7-6.7			i i	! 	! !
October	moist		3.6-3.9-6.7	none		none	! 	! !
000000	wet		6.7-6.7-6.7				i	i
November	moist		2.5-3.3-5.7	none		none	i	i
	wet		6.7-6.7-6.7		İ	İ	i	i
December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none	j	j
	wet	3.9-4.6-6.2	6.7-6.7-6.7			İ	İ	İ

Reiner (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H   			 	 	L - R - H 
January	moist	0.0-0.0-0.0	  4.1-5.4-6.7	none		none	i	i 
_	wet	4.1-5.4-6.7	6.7-6.7-6.7			į	İ	İ
February	moist	0.0-0.0-0.0	4.9-5.9-6.7	none		none	i	i
	wet	4.9-5.9-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March :	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none	i	i
	wet	3.3-4.9-6.7	6.7-6.7-6.7			[		
April	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet		6.7-6.7-6.7					
lay	moist		2.1-2.8-4.9	none		none		
	wet		6.7-6.7-6.7					
June	moist		2.6-3.1-5.7	none		none		
	wet		6.7-6.7-6.7			ļ	ļ	!
July	dry		0.0-0.0-0.3	none		none	ļ	!
	moist		3.3-5.7-6.7			ļ	!	!
	wet		6.7-6.7-6.7					<u> </u>
August	dry		0.0-0.0-0.5	none		none		ļ
	moist		4.9-6.7-6.7			!		!
September	wet   dry		6.7-6.7-6.7   0.0-0.0-0.3					
september	ary   moist		0.0-0.0-0.3   3.6-4.9-6.7	none		none	 	
	wet		3.0-4.9-6.7   6.7-6.7-6.7		 	 	l I	l I
October	moist		3.0-4.3-5.7	none		l none	! !	¦
occoper	wet		6.7-6.7-6.7	none	i	110116	i	i
November	moist		2.3-3.3-4.9	none		l none	! 	i
	wet		6.7-6.7-6.7				İ	i
December	moist	•	3.3-4.6-5.7	none		l none	i	i
December	wet	3.3-4.6-5.7					i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I12A (continued)

Foldahl (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L-R-H
January	moist	0.0-0.0-0.0	4.6-5.4-6.7	none		none		
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none		none		
	wet	4.9-5.7-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.3-2.5-4.6	none		none		
	wet	1.3-2.5-4.6	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.0-3.1-5.2	none		none		
	wet	2.0-3.1-5.2	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.8-6.2					
	wet	2.6-3.8-6.2	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	3.8-4.9-6.7					
	wet	3.8-4.9-6.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	5.2-6.7-6.7					
	wet	5.2-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	3.8-4.1-6.7					
	wet	3.8-4.1-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.3-3.8-6.7	none		none		
	wet	3.3-3.8-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-3.3-5.6	none		none		
	wet	2.5-3.3-5.6	6.7-6.7-6.7				l	
December	moist	0.0-0.0-0.0	3.8-4.1-6.2	none		none		
	wet	3.8-4.1-6.2	6.7-6.7-6.7					
	l	l	ll			l	l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I12A (continued)

Pelan (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H				 	L - R - H
	į							
January	moist		4.8-5.4-6.7	none		none		
February	wet   moist		6.7-6.7-6.7   5.2-5.7-6.7				l I	
rebruary	moist   wet		5.2-5.7-6.7   6.7-6.7-6.7	none	<del></del>	none	 	
March	wet   moist		3.3-4.6-6.7	none		l none	l I	! !
mai cii	wet		6.7-6.7-6.7	none	 		I	 
April	moist		11.3-2.5-4.9	none		none	i	i
-	wet		6.7-6.7-6.7			İ	i	i
May	moist	0.0-0.0-0.0	2.0-3.0-5.6	none		none	i	i
	wet	2.0-3.0-5.6	6.7-6.7-6.7			İ	İ	İ
June	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none	i	i
	moist	0.0-0.0-0.5	2.6-3.6-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
	moist		3.9-5.4-6.7				!	!
			6.7-6.7-6.7			ļ	!	!
August	dry		0.0-0.0-1.0	none		none		
	moist		5.4-6.7-6.7					!
September	wet   dry		6.7-6.7-6.7   0.0-0.0-0.3	none		l none		
september	moist		0.0-0.0-0.3   4.1-4.6-6.7	none		l none	 	 
	wet		6.7-6.7-6.7			i i	! 	! !
October	moist		3.6-3.9-6.7	none		none	! 	! !
000000	wet		6.7-6.7-6.7				i	i
November	moist		2.5-3.3-5.7	none		none	i	i
	wet		6.7-6.7-6.7		İ	İ	i	i
December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none	j	j
	wet	3.9-4.6-6.2	6.7-6.7-6.7			İ	İ	İ

Poppleton (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	[ [	L - R - H	L - R - H   		 	İ I	 	L - R - н 
January	moist	0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	i	 
_	wet	4.6-5.4-6.7	6.7-6.7-6.7			į	İ	İ
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none	i	none	i	i
_	wet	5.2-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none	i	none	j	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none	i	none	j	i
	wet	2.1-2.5-6.7	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7			[		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7			[		
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0	none		none		
	moist		6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
November	moist		2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7			ļ	ļ	
December	moist		4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I13A Espelie fine sandy loam, 0 to 2 percent slopes

Espelie (75 percent of the map unit)

	1	1	1		1	1	1	<u> </u>
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į į	L-R-Н	L-R-H		 	İ	į I	L - R - H
January	     moist		1.6-2.1-4.1	none				
January	moist   wet		1.6-2.1-4.1  6.7-6.7-6.7			none		
February	wet   moist		2.0-2.6-4.9		I	   none	 	l I
rebruary	wet		6.7-6.7-6.7			Hone		 
March	moist		1.5-2.3-4.9			none		 
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist		0.5-0.8-3.3			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1			occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9			none		
			6.7-6.7-6.7					
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7					
September	:		1.6-3.3-4.9			rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7		!			
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7		!			
November	moist		0.8-1.6-3.3		ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	ļ	!	l
December	moist		1.3-2.0-3.9		ļ	none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7			ļ		
	l					_	.	

Foxlake (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			ļ		L - R - H
			 		l	.  		 
anuary	moist	0.0-0.0-0.0	0.8-2.1-4.1	none	j	none	j	j
	wet	0.8-2.1-4.1	6.7-6.7-6.7		1			
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none		
	wet	1.6-2.5-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none		
	wet	0.3-1.3-3.3	6.7-6.7-6.7		[			
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0
	wet	0.0-0.0-1.6	6.7-6.7-6.7		[			
ſay	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0
			6.7-6.7-6.7		1			
June	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0
			6.7-6.7-6.7					
July			1.3-2.1-4.1	none		rare	very brief	0.0-0.2-0
			6.7-6.7-6.7					
August			1.6-3.0-4.9			rare	very brief	0.0-0.2-0
			6.7-6.7-6.7					
September			1.3-2.5-4.1	none		rare	very brief	0.0-0.2-0.
			6.7-6.7-6.7					
October			0.8-1.6-3.3			occasional	very brief	0.0-0.2-0
			6.7-6.7-6.7			1		
Tovember			0.5-1.3-2.5			occasional	brief	0.0-0.3-0
			6.7-6.7-6.7		[	[		
ecember			0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
						.		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I13A (continued)

Hilaire (7 percent of the map unit)

Month	  Moisture	Top	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H		İ	į	İ	L - R - H
	İ					İ	i 	
	1							
January	moist	0.0-0.0-0.0	4.6-5.4-6.7	none		none		
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist		4.9-5.7-6.7			none		
	wet		6.7-6.7-6.7					
March	moist		3.3-4.6-6.7			none		
	wet		6.7-6.7-6.7					
April	moist		1.6-2.5-4.6	none		none		
	wet		6.7-6.7-6.7					
May	moist		2.3-3.0-5.2			none		
	wet		6.7-6.7-6.7					
June			0.0-0.0-0.3	none		none		
	moist		2.8-3.8-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5			none		
	moist		3.8-4.6-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.7			none		
	moist		5.2-6.7-6.7					
			6.7-6.7-6.7					
September			0.0-0.0-0.5			none		
	moist		3.8-4.1-6.7					
	wet		6.7-6.7-6.7					
ctober	moist		3.3-3.8-6.7			none		
	wet		6.7-6.7-6.7					
ovember	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7					
December	moist		3.8-4.1-5.7	none		none		
	wet	3.8-4.1-5.7	6.7-6.7-6.7					
	l						l	l

Clearwater, depressional (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
11011011	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H				i	L - R - H
			İi		i	_i	i	i
January	   moist	 	  0.5-1.3-2.5	none	 	  occasional	   long	  0.0-0.5-1.0
January	wet		6.7-6.7-6.7	none	 	l	l 10119	1
February	moist		0.8-1.6-3.0	none	 	occasional	l long	0.0-0.5-1.0
2	wet		6.7-6.7-6.7		i		i	
March	moist		0.0-0.0-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7		İ		İ	
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	i	frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7		İ	İ	İ	İ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none	j	frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist		0.0-0.5-1.6	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
August	moist		0.8-1.6-3.0	none	ļ	occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7		!		!	!
September	moist		0.5-1.3-2.5	none	!	occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
October	moist		0.3-0.8-2.0	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7				1	
November	moist		0.2-0.5-1.6	none		occasional	long	0.0-0.5-1.0
December	wet   moist		6.7-6.7-6.7		 		   1	0.0-0.5-1.0
December	moist   wet		0.3-0.8-2.0   6.7-6.7-6.7	none		occasional	long	10.0-0.5-1.0
	wet	0.3-0.8-2.0	0.7-0.7-6.7		!	1	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I13A (continued)

Thiefriver (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	[ [	L - R - H	L - R - H			ļ		L - R - H
	 		 			.   	 	 
January	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none		
	wet	2.0-2.6-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none		none		
	wet	1.5-2.3-4.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July			1.6-3.0-4.9	none		none		
			6.7-6.7-6.7			1		
August	moist		2.5-3.8-5.7		!	none	!	
	wet		6.7-6.7-6.7		!	ļ		
September	moist		1.6-3.3-4.9	none	!	rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7		!	ļ		
October			1.3-2.5-4.1	none	!	rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7				!	
November	! !		0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7			!		
December	moist		1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7		I			l

I15A Flaming loamy fine sand, 0 to 3 percent slopes

Flaming (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - E 
January	moist	0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	i	 
_	wet	4.6-5.4-6.7	6.7-6.7-6.7			İ	İ	
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none	i	none	i	i
	wet	5.2-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none	i	none	j	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none	i	none	j	i
	wet	2.1-2.5-6.7	6.7-6.7-6.7					
<b>lay</b>	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July			0.0-0.0-0.7	none		none		
			6.7-6.7-6.7					
August			0.0-0.0-1.0	none		none		
			6.7-6.7-6.7					
September			0.0-0.0-0.3	none		none		
			4.1-4.9-6.7					
			6.7-6.7-6.7					
October			3.3-4.6-6.7	none		none		
			6.7-6.7-6.7					
Tovember			2.5-4.1-5.7	none		none		
			6.7-6.7-6.7				ļ	
December			4.1-4.9-6.7	none		none	ļ	
	wet	4.1-4.9-6.7	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I15A (continued)

Garborg (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	L-R-H	rrequency		II equency		L-R-I
	i				 	İ	İ	İ
						ļ.	ļ.	!
January	moist		2.6-3.3-5.9	none		none	!	ļ
	wet		6.7-6.7-6.7				!	!
February	moist		3.3-4.1-6.7	none		none	!	!
	wet		6.7-6.7-6.7					!
March	moist		2.6-3.3-5.7	none		none		
			6.7-6.7-6.7					!
April	moist		1.1-1.5-3.3	none		none		
			6.7-6.7-6.7					!
May	moist		1.5-1.8-4.1	none		none		
_			6.7-6.7-6.7					!
June			0.0-0.0-0.3	none		none		
	moist		2.0-2.5-4.9					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5	none		none		ļ
	moist		2.6-4.9-6.2					
	wet		6.7-6.7-6.7					
August			0.0-0.0-0.7	none		none		ļ
g			6.7-6.7-6.7		 			
September	dry moist		0.0-0.0-0.3	none		none		
			2.6-4.9-6.7		 			
October	wet   moist		6.7-6.7-6.7   2.3-3.0-5.7		 		 	
October			2.3-3.0-5.7   6.7-6.7-6.7	none	 	none		
November	wet   moist		6.7-6.7-6.7   2.0-2.5-4.9	none	l i	l none	I I	l I
November	moist   wet		2.0-2.5-4.9   6.7-6.7-6.7	none	<b></b>	none		
December	wet   moist				 		1	l I
Jecember			2.3-3.0-5.2	none	<b></b>	none		
	wet	2.3-3.0-5.2	6.7-6.7-6.7			!	1	!

Hamar (5 percent of the map unit)

Month	Moisture	Тор	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
ионен	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H	rroquency				L - R - H
	! !	 			 	_  	·!	! !
January	moist		2.0-2.5-4.9	none	ļ	none	ļ	!
	wet		6.7-6.7-6.7		<u> </u>	ļ	!	!
February	moist		2.5-3.3-5.7			none	!	!
			6.7-6.7-6.7					
March	moist		1.6-2.1-4.1	none		none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet   moist		6.7-6.7-6.7   0.5-1.3-3.3			  occasional	1	  0.0-0.3-0.5
May			0.5-1.3-3.3   6.7-6.7-6.7			loccasional	very brier	10.0-0.3-0.3
June	wet   moist		6.7-6.7-6.7   0.8-1.6-4.1	none	 	   rare		  0.0-0.3-0.5
June	moist   wet		0.8-1.6-4.1   6.7-6.7-6.7			rare	very brier	10.0-0.3-0.3
July	wet   moist		0.7-0.7-0.7   1.6-3.3-4.9		l I	l none		l I
oury	wet		1.0-3.3-4.9   6.7-6.7-6.7		 	none		i
August	wec   moist		0.7-0.7-0.7     2.5-4.9-5.7		! !	l none		¦
August	wet		6.7-6.7-6.7	none	 	none		 
September	moist		11.3-3.0-4.9	none	! !	l none		 
Depechaci	wet		6.7-6.7-6.7		! 	110110	i	i
October	moist		1.0-2.1-4.1	none	i	rare	  verv brief	0.0-0.3-0.5
			6.7-6.7-6.7		i			
November	moist		0.8-1.6-3.3		i	none	i	i
	wet		6.7-6.7-6.7		i		i	i
December	moist		1.3-2.1-4.1	none	i	none	i	i
	wet		6.7-6.7-6.7		İ	i	i	i
	:				:	:	:	:

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I15A (continued)

Ulen (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H			!		L-R-H
					- <u></u>	-	 	 
January	moist	0.0-0.0-0.0		none		none	i	i
	wet	2.6-3.3-5.9	6.7-6.7-6.7					
ebruary	moist	0.0-0.0-0.0		none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0		none		none		
	wet	2.6-3.3-5.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0		none		none		
	wet	1.5-2.0-3.3						
ſay	moist	0.0-0.0-0.0		none		none		
	wet	2.0-2.5-4.1	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0		none		none		
	moist	0.0-0.0-0.3						
	wet	2.5-3.0-4.9						
July	dry	0.0-0.0-0.0		none		none		
	moist	0.0-0.0-0.5						
	wet		6.7-6.7-6.7					
August	dry	0.0-0.0-0.0		none		none		
	moist	0.0-0.0-0.7						
September			0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3						
	wet	2.6-4.9-6.7						
october	moist	0.0-0.0-0.0		none		none		
	wet	2.3-3.0-5.7						
November	moist	0.0-0.0-0.0		none		none		
	wet	2.0-2.5-4.9						
December	moist	0.0-0.0-0.0		none		none		
	wet	2.3-3.0-5.2	6.7-6.7-6.7					

Poppleton (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H		İ	İ	į	L-R-H
January	moist		4.6-5.4-6.7		ļ	none	ļ	ļ
	wet		6.7-6.7-6.7					!
February	moist		5.2-6.2-6.7			none	!	ļ
_	wet		6.7-6.7-6.7			!	!	!
March	moist		3.3-4.1-6.7			none	!	ļ
	wet		6.7-6.7-6.7			!	!	!
April	moist		2.1-2.5-6.7			none	!	ļ
	wet		6.7-6.7-6.7			!	!	!
May	moist		2.5-2.8-5.7			none	!	!
	wet		6.7-6.7-6.7		!	!	!	!
June		0.0-0.0-0.0			ļ	none	!	!
		0.0-0.0-0.3			!	!	!	!
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7			none		ļ
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		ļ
	moist		6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	!	0.0-0.0-0.3						
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7			none		
	wet		6.7-6.7-6.7					
November	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
December	moist		4.1-4.9-6.7			none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7			ļ.	ļ.	!
	l				l		l	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I15A (continued)

Sandberg (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H		 	 	 	L - R - H 
			ii			ļ	<u> </u>	
January	moist		6.7-6.7-6.7	none		none		
February			6.7-6.7-6.7	none		none		
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
May	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7		1			
September	r  dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7		Ì	ĺ	ĺ	ĺ
October	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
November	moist	0.0-0.0-0.0	6.7-6.7-6.7	none	i	none	i	
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none	i	none	i	i

Foldahl (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L-R-H
					l		l	
January	moist		4.6-5.4-6.7			none		
	wet		6.7-6.7-6.7					
February	moist		4.9-5.7-6.7			none		
			6.7-6.7-6.7					
March			3.3-4.6-6.7			none		
			6.7-6.7-6.7					
April	moist		1.3-2.5-4.6			none		
			6.7-6.7-6.7					
May			2.0-3.1-5.2			none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist		2.6-3.8-6.2					
			6.7-6.7-6.7					
July			0.0-0.0-0.5			none		
			3.8-4.9-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.7			none		
	moist		5.2-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		3.8-4.1-6.7					
			6.7-6.7-6.7					
October			3.3-3.8-6.7			none		
			6.7-6.7-6.7					
November	moist		2.5-3.3-5.6			none		
	wet		6.7-6.7-6.7					
December	moist		3.8-4.1-6.2			none		
	wet	3.8-4.1-6.2	6.7-6.7-6.7					
						l		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I15A (continued)

Radium (2 percent of the map unit)

			<u> </u>		!	ļ	ļ	ļ
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
	ļ		ļ		ļ	ļ	ļ	ļ
_								
January	moist		4.9-5.4-6.7	none		none		
	wet		6.7-6.7-6.7					
February	moist		5.7-6.2-6.7			none		
	wet	•	6.7-6.7-6.7			ļ		
March	moist		3.3-4.1-6.7			none		
3 m m 4 3	wet		6.7-6.7-6.7					
April	moist		2.1-3.0-4.9			none		ļ
	wet   moist		6.7-6.7-6.7 2.6-3.8-5.7		 			
May			•			none		
<b>T</b>	wet		6.7-6.7-6.7   0.0-0.0-0.3					
June	dry moist		3.3-4.4-6.7			none		
	moist   wet		3.3-4.4-6.7   6.7-6.7-6.7		 	l i		
July	wet   dry		10.0-0.0-0.7		 	 		
July	dry   moist		6.7-6.7-6.7		<del></del>	none		
August	dry		0.0-0.0-1.0		l I	l I none	l I	l I
August	dry   moist		6.7-6.7-6.7			i none	 	 
September	dry		0.0-0.0-0.7		l 	l I none	l I	l I
september	diy   moist		4.1-4.9-6.7		 	i none	 	 
	wet		6.7-6.7-6.7		 	I I	I I	! !
October	wet   moist		3.3-4.6-6.7		! !	l none	! !	¦
OCCODEL	wet		6.7-6.7-6.7		 	l none	 	 
November	moist		2.5-4.1-5.7	none	! !	l none	! !	! !
140 A GUIDGT	moist   wet		6.7-6.7-6.7		 	l mone	ı I	 I
December	wet   moist		4.1-4.9-6.7			l I none	! !	¦
pecemper	wet		6.7-6.7-6.7	i ione	 	l none	I	I -3-
	l wer		0 . / - 0 . / - 0 . /		I I	I I	! !	<u> </u>
	I ———	I	I		l ———	I ————	l	I ————

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I16F Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes

Fluvaquents (55 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			ļ	Į.	L - R - H
	ļ					·!	ļ	ļ
January	   moist	0.0-0.0-0.0	  0.5-1.3-2.5	   none		   frequent	very long	  0.0-0.5-1.0
2		0.5-1.3-2.5						
February		0.0-0.0-0.0				frequent	very long	0.0-0.5-1.0
	wet	0.8-1.6-3.0	6.7-6.7-6.7	İ		İ	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	frequent	very long	frequent	very long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	very frequent	very long	frequent	very long	0.0-0.7-1.3
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May				very frequent	long	frequent	very long	0.0-0.7-1.3
		0.0-0.0-1.3						
June		0.0-0.0-0.0			long	frequent	very long	0.0-0.5-1.0
		0.0-0.5-1.6					ļ	ļ
July		0.0-0.0-0.0			brief	occasional	long	0.0-0.5-1.0
		0.5-1.3-2.5					!	!
August		0.0-0.0-0.0			brief	occasional	brief	0.0-0.5-1.0
		0.8-1.6-3.0			_	!	!	
September		0.0-0.0-0.0			long	occasional	brief	0.0-0.5-1.0
		0.5-1.3-2.5				!	!	
October		0.0-0.0-0.0			long	occasional	long	0.0-0.5-1.0
November		0.3-0.8-2.0			1	  occasional	   long	  0.0-0.5-1.0
november		0.0-0.0-0.0			long	ccasional	l rong	10.0-0.5-1.0
December		0.2-0.3-1.6				frequent	  very long	0.0-0.5-1.0
pecember	wet	0.3-0.8-2.0				rreduenc	I very rong	10.0-0.5-1.0
	wet	0.3-0.0-2.0	0.7-0.7-0.7	!		!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I16F (continued)

Hapludolls (25 percent of the map unit)

Month	Moisture	I   Top	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L - R - H	L - R - H		 	 	İ I	L - R - H
T	moist		    6.7-6.7-6.7	none				
January February	moist		6.7-6.7-6.7   6.7-6.7-6.7	none		none none		
-					1 1 1 6			
March			5.7-6.7-6.7	rare	brief	none		
April	wet   moist		6.7-6.7-6.7   4.9-6.7-6.7	rare	   brief	   none	 	 
	wet	4.9-6.7-6.7	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	5.7-6.7-6.7	rare	brief	none		
	wet	5.7-6.7-6.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	rare	very brief	none		
	moist	0.0-0.0-0.3	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	very rare	very brief	none		
	moist	0.0-0.0-0.5	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	very rare	very brief	none		
	moist	0.0-0.0-0.5	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.5	rare	very brief	none		
	moist	0.0-0.0-0.5	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	6.7-6.7-6.7	rare	brief	none		
November	moist	0.0-0.0-0.0	6.7-6.7-6.7	rare	brief	none		
	wet	5.7-6.7-6.7	6.7-6.7-6.7				I	l
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
	I	l	ı i		I	I	I	İ

Hapludalfs (7 percent of the map unit)

Month	Moisture	l Top	   Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
11011011	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			  1	   	L - R - H
January	moist	0.0-0.0-0.0	    4.1-5.4-6.7	none	   	none	   	   
	wet	4.1-5.4-6.7	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	4.9-6.2-6.7	none		none	j	i
	wet	4.9-6.2-6.7	6.7-6.7-6.7			ĺ	ĺ	
March	moist	0.0-0.0-0.0	4.1-5.4-6.7	rare	brief	none		
	wet	4.1-5.4-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	2.1-2.5-3.8	rare	brief	none		
	wet	2.1-2.5-3.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.5-2.8-4.6	rare	brief	none		
	wet	2.5-2.8-4.6	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	2.8-3.1-5.7	rare	very brief	none		
	wet	2.8-3.1-5.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.2	very rare	very brief	none		
	moist	0.0-0.0-0.2	3.3-5.7-6.7					
	wet	3.3-5.7-6.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.3	very rare	very brief	none		
	moist	0.0-0.0-0.3	4.9-6.7-6.7					
	wet	4.9-6.7-6.7	6.7-6.7-6.7					
September			3.6-4.9-6.7		very brief	none		
	wet	3.6-4.9-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.0-4.6-6.7	rare	very brief	none		
	wet	3.0-4.6-6.7	6.7-6.7-6.7					
November			2.3-3.3-4.9		very brief	none		
			6.7-6.7-6.7					
December	moist		3.3-4.1-5.7			none		
	wet	3.3-4.1-5.7	6.7-6.7-6.7			<u> </u>	ļ.	
	.						l	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I16F (continued)

Fairdale (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			 	 	L - R - F
	 	 				 	l	<del></del>
January	moist		4.6-5.7-6.7	none		none		
	wet		6.7-6.7-6.7					
February	moist		4.6-6.2-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		3.8-5.2-6.7	occasional	brief	none		
	wet		6.7-6.7-6.7					
April	moist		1.6-2.5-4.1	occasional	brief	none		
	wet		6.7-6.7-6.7					
May	moist		2.1-3.1-4.9	occasional	brief	none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	occasional	brief	none		
	moist		3.0-3.8-6.7					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.8	rare	very brief	none		
	moist		4.1-6.2-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.8	very rare	very brief	none		
	moist		5.4-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3	very rare	very brief	none		
	moist		4.1-5.4-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.8-6.7	very rare	very brief	none		
	wet		6.7-6.7-6.7					
Iovember	moist		2.5-3.8-5.7	none		none		
	wet		6.7-6.7-6.7					
December	moist		4.1-5.2-6.7	none		none		
	wet	4.1-5.2-5.7	6.7-6.7-6.7					

Water (5 percent of the map unit) (not applicable)

Bowstring (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	[ [	L - R - H   	L - R - H	 			 	L - R - I
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none I		frequent	very long	0.0-0.3-0
, arrang 1	wet	0.5-1.3-3.3						
February	moist	0.0-0.0-0.0				frequent	very long	0.0-0.3-0
	wet	1.3-2.1-4.1	6.7-6.7-6.7	j j		i	į -	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	frequent	very long	frequent	very long	0.0-0.5-1
	wet	0.0-0.0-2.5					[	[
April	moist			very frequent	very long	frequent	very long	0.0-0.5-1
	wet	0.0-0.0-0.8					ļ	
May	moist			very frequent	long	frequent	very long	0.0-0.5-1
_	wet	0.0-0.0-1.3			_		! _	
June	moist	0.0-0.0-0.0			long	frequent	very long	0.0-0.5-1
	wet	0.0-0.0-1.6			1		1	
July	moist   wet	0.0-0.0-0.0   0.2-0.8-2.5			brief	occasional	long	0.0-0.3-0
August	wet   moist	0.2-0.8-2.5  0.0-0.0-0.0			brief	  occasional	   long	  0.0-0.3-0
August	wet	0.0-0.0-0.0   0.8-1.6-3.3			DITEL	l	IOII9	0.0-0.3-0
September		0.0-0.0-0.0			brief	occasional	brief	0.0-0.3-0
	wet	0.3-1.1-3.0						i
October	moist	0.0-0.0-0.0	0.2-0.5-2.5	frequent	long	occasional	brief	0.0-0.3-0
	wet	0.2-0.5-2.5	6.7-6.7-6.7	i i		İ	İ	İ
November	moist	0.0-0.0-0.0	0.2-0.5-1.6	rare	long	occasional	long	0.0-0.5-1
	wet	0.2-0.5-1.6	6.7-6.7-6.7	İ			1	1
December	moist	0.0-0.0-0.0	0.5-0.8-2.5	none		frequent	very long	0.0-0.3-0
	wet	0.5-0.8-2.5	6.7-6.7-6.7					I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I16F (continued)

Rauville (1 percent of the map unit)

Month	  Moisture	Top	   Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	L-R-H	Irequency	daracron	l		L-R-H
	i	i	i	i		İ	i	
	i							i
January	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		frequent	very long	0.0-0.5-1.0
_	wet	0.5-1.3-2.5	6.7-6.7-6.7	j		į -	į -	İ
February	moist	0.0-0.0-0.0	0.8-1.6-3.0	none		frequent	very long	0.0-0.5-1.0
	wet	0.8-1.6-3.0	6.7-6.7-6.7	j		İ	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	frequent	very long	frequent	very long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	very frequent	very long	frequent	very long	0.0-0.7-1.3
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	very frequent	long	frequent	very long	0.0-0.7-1.3
	wet		6.7-6.7-6.7					
June	moist		0.0-0.5-1.6		long	frequent	very long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.5-1.3-2.5	1	brief	occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7				ļ	ļ
August	moist		0.8-1.6-3.0		brief	occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					ļ
September	moist		0.5-1.3-2.5		long	occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7		_		! -	
October	moist		0.3-0.8-2.0		long	occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		_	!	! _	
November	moist		0.2-0.5-1.6		long	occasional	long	0.0-0.5-1.0
_	wet		6.7-6.7-6.7				! _	
December	moist		0.3-0.8-2.0			frequent	very long	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7				ļ	ļ
							l	l

I17A Foldahl fine sandy loam, 0 to 3 percent slopes

Foldahl (75 percent of the map unit)

Month	  Moisture	l Top	   Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	i	L-R-H	L-R-H	i	İ	i	İ	L-R-H
	İ	İ	İ	İ	İ	İ	İ	İ
_	ļ			•				
January	moist   wet		4.6-5.4-6.7  6.7-6.7-6.7	•		none		
February	wet   moist		4.9-5.7-6.7		l I	l none	l I	l I
rebluary	wet		6.7-6.7-6.7	•	 	l none	 	 
March	moist		3.3-4.6-6.7	•	l 	l none	! 	! 
1101 011	wet		6.7-6.7-6.7		 	110110	! 	
April	moist		1.3-2.5-4.6	•		l none	i	i
-	wet		6.7-6.7-6.7	•	<u> </u>	İ	i	i
May	moist	0.0-0.0-0.0	2.0-3.1-5.2	none		none	i	i
	wet	2.0-3.1-5.2	6.7-6.7-6.7	İ	İ	İ	İ	İ
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none	i	i
	moist	0.0-0.0-0.3	2.6-3.8-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5			none		
	moist		3.8-4.9-6.7	•				
	wet		6.7-6.7-6.7	•		!	!	!
August	dry		0.0-0.0-0.7			none	ļ	ļ
	moist		5.2-6.7-6.7	•				
g	wet		6.7-6.7-6.7	•	 			!
September	dry   moist		0.0-0.0-0.3 3.8-4.1-6.7	•	<b></b>	none		
	wet		6.7-6.7-6.7		 	l I	l I	l I
October	moist		3.3-3.8-6.7	•	l 	l none	! !	! !
OCCODEL	wet		6.7-6.7-6.7		 	l none	I	I
November	moist		2.5-3.3-5.6	•		l none	i	i
	wet		6.7-6.7-6.7	•	İ		İ	i
December	moist		3.8-4.1-6.2		i	none	i	i
	wet	3.8-4.1-6.2	6.7-6.7-6.7	ĺ	İ	İ	İ	İ
	İ	İ	İ		İ	İ	İ	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I17A (continued)

Kratka (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 			L - R - H
January	moist   wet		1.6-3.0-4.1   6.7-6.7-6.7	none		none		
February	wet   moist		6.7-6.7-6.7    2.5-3.3-4.9		1	l mone	l i	 
rebruary			2.5-3.3-4.9   6.7-6.7-6.7			none		
March			0.7-0.7-0.7   1.6-2.1-4.1		I I	l none		l I
March	moist   wet		1.0-2.1-4.1   6.7-6.7-6.7			i none		 
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5			occasional	   brief	  0.0-0.3-0.
APILI	wet		6.7-6.7-6.7			l	Dilei	0 • 0 = 0 • 5 = 0 • ·
May	moist		0.5-0.8-3.3		i	loccasional	  verv brief	  0.0-0.3-0.
2	wet		6.7-6.7-6.7		İ			
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		i	i	1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	i	none	i	i
_	wet	1.6-3.3-4.9	6.7-6.7-6.7		į	i	İ	İ
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none	i	none	j	i
	wet	2.5-4.1-5.7	6.7-6.7-6.7		İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		i
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
						.		

Roliss (5 percent of the map unit)

	I	ı	1		I	I	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		
Uanuary	wet		1.0-3.0-4.1   6.7-6.7-6.7		 	l none		 
February	moist		2.5-3.3-4.9		 	l none		 
r cor dar y	wet		6.7-6.7-6.7		! I	1		! !
March	moist		11.3-2.1-3.3			l none	i	! 
	wet		6.7-6.7-6.7		i		i	i
April	moist		0.0-0.5-2.5		i	occasional	brief	0.0-0.3-0.
-	wet		6.7-6.7-6.7		i			
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.3-0.8-3.3	6.7-6.7-6.7		į	i	İ	İ
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.7-1.3-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7		[	1		
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7		[			
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		[			
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		ļ	<u> </u>		
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7		ļ	ļ	!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I17A (continued)

Flaming (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	   	 
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none		none		
	wet	5.2-6.2-6.7	6.7-6.7-6.7					
March	moist		3.3-4.1-6.7	none		none		
		•	6.7-6.7-6.7					
April	moist		2.1-2.5-6.7			none		
	wet		6.7-6.7-6.7					
May	moist		2.5-2.8-5.7			none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist		2.6-3.3-6.7					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7			none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		
	moist		6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7			none		
	wet		6.7-6.7-6.7					
November	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
December	moist		4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7					

Grimstad (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  2.5-3.8-5.7	none	j I	none	j I	j I
-	wet	2.5-3.8-5.7	6.7-6.7-6.7			İ	İ	İ
February	moist	0.0-0.0-0.0	3.3-4.6-6.7	none	i	none	j	i
	wet	3.3-4.6-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	2.5-3.0-5.7	none		none	j	i
	wet	2.5-3.0-5.7	6.7-6.7-6.7			[		
April	moist	0.0-0.0-0.0	0.8-1.5-3.3	none		none		
	wet		6.7-6.7-6.7			[		
fay	moist		1.1-1.8-4.1	none		none		
	wet		6.7-6.7-6.7					
June	moist		1.6-3.3-4.9	none		none		
	•		6.7-6.7-6.7					
July	dry		0.0-0.0-0.3	none		none		
	moist		2.5-5.7-6.2			ļ		
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.5	none	ļ	none	!	!
_	moist		6.7-6.7-6.7		!	!	!	!
September	dry		0.0-0.0-0.3	none		none	!	!
	moist		2.5-3.8-6.7		!	!	!	!
	wet		6.7-6.7-6.7					<u> </u>
October	moist		2.0-3.0-5.6	none		none		ļ
	wet		6.7-6.7-6.7			ļ		
November	moist		1.6-2.5-4.9	none		none		
	wet		6.7-6.7-6.7					!
December	moist		2.0-3.3-5.4	none		none		ļ
	wet	2.0-3.3-5.4	6.7-6.7-6.7		ļ	ļ.	ļ	ļ.

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I17A (continued)

Linveldt (2 percent of the map unit)

status   depth   depth   frequency   duration   frequency   duration   dep	Month	  Moisture	l Top	Bottom	Flooding	   Flooding	   Ponding	Ponding	   Ponding
January   moist   0.0-0.0-0.0   4.8-5.4-6.7   none     none     wet   4.8-5.4-6.7   6.7-6.7-6.7   none     none     none       wet   4.8-5.4-6.7   6.7-6.7-6.7   none     none     none       wet   5.2-5.7-6.7   6.7-6.7-6.7   none     none     none     none     wet   3.3-4.6-6.7   6.7-6.7-6.7   none     none		status		depth					depth
wet   4.8-5.4-6.7   6.7-6.7-6.7   none     none		į	L-R-H	L-R-H		İ	į	į	L - R - 1
wet   4.8-5.4-6.7   6.7-6.7-6.7   none     none						 			
Pebruary   moist   0.0-0.0-0.0   5.2-5.7-6.7   none     none         wet   5.2-5.7-6.7   6.7-6.7-6.7   none     none       farch   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none       wet   3.3-4.6-6.7   6.7-6.7-6.7     April   moist   0.0-0.0-0.0   1.3-2.5-4.9   none     none       wet   1.3-2.5-4.9   6.7-6.7-6.7     fay   moist   0.0-0.0-0.0   2.0-3.0-5.6   none     none       wet   2.0-3.0-5.6   6.7-6.7-6.7     fune   dry   0.0-0.0-0.0   0.0-0.0-0.5   none     none       moist   0.0-0.0-0.5   2.6-3.6-6.2     wet   2.6-3.6-6.2   6.7-6.7-6.7     fully   dry   0.0-0.0-0.0   0.0-0.0-7   none     none       moist   0.0-0.0-0.7   3.9-5.4-6.7     wet   3.9-5.4-6.7   6.7-6.7-6.7     day   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   5.4-6.7-6.7     wet   5.4-6.7-6.7   6.7-6.7-6.7     dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none         moist   0.0-0.0-0.0   0.0-0.0-0.0   none     none         deptember   dry   0.0-0.0-0.0   3.6-3.9-6.7   none     none         october   moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         dovember   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none             december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none         december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none         december   moist	January	1			none	ļ	none	!	!
wet   5.2-5.7-6.7   6.7-6.7-6.7									<u> </u>
March	'ebruary	!					none	ļ	!
wet   3.3-4.6-6.7   6.7-6.7-6.7							!		
April moist   0.0-0.0-0.0   1.3-2.5-4.9   none     none     wet   1.3-2.5-4.9   6.7-6.7-6.7     none     none       wet   2.0-3.0-5.6   none     e       none       none       none       none       none       none       none       none       none       none       none       none       none       none       none       none         none       none       none       none       none       none       none	larch	1					none		ļ
wet   1.3-2.5-4.9   6.7-6.7-6.7									!
May moist   0.0-0.0-0.0   2.0-3.0-5.6   none	Aprii	1					none		!
wet   2.0-3.0-5.6   6.7-6.7-6.7	f					l i		 	
Tune   dry   0.0-0.0-0.0   0.0-0.0-0.5   none     none         moist   0.0-0.0-0.5   2.6-3.6-6.2                 wet   2.6-3.6-6.2   6.7-6.7-6.7           Tuly   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none         moist   0.0-0.0-0.7   3.9-5.4-6.7             wet   3.9-5.4-6.7   6.7-6.7-6.7             wet   3.9-5.4-6.7   6.7-6.7             moist   0.0-0.0-1.0   5.4-6.7-6.7             moist   0.0-0.0-1.0   5.4-6.7-6.7           moist   0.0-0.0-0.0   0.0-0.0-0.3   none     none         September   dry   0.0-0.0-0.3   4.1-4.6-6.7           moist   0.0-0.0-0.3   4.1-4.6-6.7             moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         wet   4.1-4.6-6.7   6.7-6.7-6.7           moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         moist   0.0-0.0-0.0   3.9-4.6-6.2   2   none     none	ay	!				<del></del>	l none		!
moist   0.0-0.0-0.5   2.6-3.6-6.2						l I		 	 
wet   2.6-3.6-6.2   6.7-6.7-6.7	une	1				 	Hone	 	
Tuly dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none         moist   0.0-0.0-0.7   3.9-5.4-6.7       wet   3.9-5.4-6.7   6.7-6.7-6.7       august   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   5.4-6.7-6.7       wet   5.4-6.7-6.7   6.7-6.7-6.7       september   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   4.1-4.6-6.7       wet   4.1-4.6-6.7   6.7-6.7-6.7       cotober   moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         wet   3.6-3.9-6.7   6.7-6.7-6.7       sovember   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         wet   2.5-3.3-5.7   6.7-6.7-6.7       coecember   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           coecember   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           coecember   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none						l I	 	] 	!
moist   0.0-0.0-0.7   3.9-5.4-6.7	T11 ] 32					! !	l none	¦	¦
wet   3.9-5.4-6.7   6.7-6.7-6.7	, ary					 	l none	i	
August   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none         moist   0.0-0.0-1.0   5.4-6.7-6.7           wet   5.4-6.7-6.7   6.7-6.7-6.7         September   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   4.1-4.6-6.7           wet   4.1-4.6-6.7   6.7-6.7-6.7         Doctober   moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         wet   3.6-3.9-6.7   6.7-6.7-6.7         November   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none		!				! 	<u> </u>	<u> </u>	¦
moist   0.0-0.0-1.0   5.4-6.7-6.7	August					 	l none	i	i
wet   5.4-6.7-6.7   6.7-6.7-6.7						i I		i	i
September dry   0.0-0.0-0.0   0.0-0.0-0.3   none						i	i	i	i
wet   4.1-4.6-6.7   6.7-6.7-6.7	September	dry			none		none	i	i
October   moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         wet   3.6-3.9-6.7   6.7-6.7-6.7         November   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         wet   2.5-3.3-5.7   6.7-6.7-6.7         December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none	-	moist	0.0-0.0-0.3	4.1-4.6-6.7		i	i	i	i
wet   3.6-3.9-6.7   6.7-6.7-6.7		wet	4.1-4.6-6.7	6.7-6.7-6.7			i	İ	İ
Tovember   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none	ctober	moist	0.0-0.0-0.0	3.6-3.9-6.7	none	i	none	j	i
wet   2.5-3.3-5.7   6.7-6.7-6.7		wet	3.6-3.9-6.7	6.7-6.7-6.7		İ	İ	İ	İ
December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none	lovember	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	i	none	j	i
		wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
wet  3.9-4.6-6.2 6.7-6.7	December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none		
		wet	3.9-4.6-6.2	6.7-6.7-6.7			1		
				i					

Eckvoll (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H		 		 	L - R - H
•			 					
January			4.6-5.4-6.7   6.7-6.7-6.7	none		none		ļ
February			6.7-6.7-6.7   4.9-5.7-6.7	none	 	l none	 	 
rebruary			<del>1</del>	none	 	I none	 	 
March			3.3-4.6-6.7	none	l 	l none	! !	! !
			6.7-6.7-6.7		 		i	i
April			2.1-2.5-4.6	none		none	i	i
-	wet	2.1-2.5-4.6	6.7-6.7-6.7		İ	İ	İ	İ
May	moist	0.0-0.0-0.0	2.6-3.1-5.2	none	i	none	j	j
	wet	2.6-3.1-5.2	6.7-6.7-6.7			İ	ĺ	ĺ
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
			2.6-3.8-6.2					
			6.7-6.7-6.7					
July			0.0-0.0-0.5	none		none	ļ	ļ
			3.8-4.9-6.7			!	!	!
			6.7-6.7-6.7			!	!	!
August			0.0-0.0-0.8	none		none		
			5.2-6.7-6.7			!		!
			6.7-6.7-6.7   0.0-0.0-0.3		l i		 	!
September			0.0-0.0-0.3   3.8-4.1-6.7	none	 	none		
			6.7-6.7-6.7		 		 	¦
October			3.3-3.8-6.7	none	 	l none	¦ 	i
000000			6.7-6.7-6.7		 		i	i
November			2.5-3.3-5.6	none		none	i	i
	wet		6.7-6.7-6.7		İ	i	i	i
December	moist	0.0-0.0-0.0	3.8-4.1-6.2	none	i	none	j	j
	wet	3.8-4.1-6.2	6.7-6.7-6.7				I	l
	li		i			l	l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I17A (continued)

Strathcona (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H		!	!	ļ	L-R-H
January	   moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		 
	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none		i
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
- 1	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist		1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

\*

I18A Foldahl loamy fine sand, 0 to 3 percent slopes

Foldahl (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ .l	L-R-H	L - R - H   		[ 	İ İ	 	L - R - H 
January	   moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	j 	 
	wet		6.7-6.7-6.7					
February	moist		4.9-5.7-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7		!	!	!	
April	moist		1.3-2.5-4.6	none	ļ	none	!	
Mav I	wet		6.7-6.7-6.7		!	ļ	!	ļ
May	moist		2.0-3.1-5.2	none		none		
_	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
	moist		2.6-3.8-6.2					ļ
	wet		6.7-6.7-6.7					ļ
July	dry   moist		0.0-0.0-0.5   3.8-4.9-6.7	none		none		
	moist		3.8-4.9-6.7   6.7-6.7-6.7		 			l i
3	wet   dry		0.7-6.7-6.7   0.0-0.0-0.7		 			l i
August	moist		0.0-0.0-0.7   5.2-6.7-6.7	none	 	none		
	wet		5.2-6.7-6.7    6.7-6.7-6.7		 	I I	l I	l I
September			0.7-0.7-0.7   0.0-0.0-0.3	none	! !	none	! !	l I
september	moist		3.8-4.1-6.7	none	 	l none	 	 
	wet		6.7-6.7-6.7		! !		<u> </u>	! 
October	moist		3.3-3.8-6.7	none	! !	none	! !	! !
	wet		6.7-6.7-6.7		i		i	İ
November	moist		2.5-3.3-5.6	none	i	none	i	
	wet		6.7-6.7-6.7		İ		i	İ
December	moist		3.8-4.1-6.2	none	i	none	i	
December	wet	3.8-4.1-6.2			i	i	i	i
		10.0 1.1 0.2	1001-001-001				ı	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I18A (continued)

Kratka (10 percent of the map unit)

Month	  Moisture	   Top	Bottom	Flooding	   Flooding	   Ponding	   Ponding	Ponding
Month	status	depth	depth	frequency	flooding   duration	frequency	duration	Ponding   depth
	Status	L-R-H	L-R-H	rrequency	duracion	Irequency	duracion	depth   L - R - H
		 				-  	·	! !
January	moist		1.6-3.0-4.1	none		none		
February	wet   moist		6.7-6.7-6.7   2.5-3.3-4.9		 	l none	 	1
rebruary			2.5-3.3-4.9   6.7-6.7-6.7			none		
March	wet   moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
Annil	wet		6.7-6.7-6.7		[			[
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		ļ	!	!	
May	moist		0.5-0.8-3.3		ļ	occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!	!	!	!
June	moist		0.8-1.6-4.1	none	ļ	rare	very brief	0.0-0.1-0.
_			6.7-6.7-6.7			!	!	!
July	moist		1.6-3.3-4.9			none		!
			6.7-6.7-6.7			!	!	
August	!		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7			!	!	!
September	•		1.6-3.3-4.9			none		
October	wet   moist		6.7-6.7-6.7   1.3-2.5-4.1		 			  0.0-0.1-0.
October			1.3-2.5-4.1   6.7-6.7-6.7			rare	very brier	10.0-0.1-0.
November			0.7-6.7-6.7   0.8-1.6-3.3		l i	   rare	Irramri badaf	  0.0-0.1-0.
November	wet		0.8-1.8-3.3   6.7-6.7-6.7			rare	Age A Direc	10.0-0.1-0.
December	wet   moist		0.7-6.7-6.7    1.3-2.1-3.8		I I	l none	I I	I I
December	wet		1.3-2.1-3.8   6.7-6.7-6.7	none	]	l none	-3-	 
	l wer	1.3-2.1 <b>-</b> 3.0	0 • 7 <del>- 0 •</del> 7 <del>- 0 •</del> 7   		] 	I I		! !
	I					-	· I —————	I —————

## Roliss (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
					! !	-! !	!	! !
January	moist		1.6-3.0-4.1	none		none	!	ļ
_	•		6.7-6.7-6.7			!	!	!
February	moist		2.5-3.3-4.9	none		none	ļ	ļ
			6.7-6.7-6.7			!	!	!
March			1.3-2.1-3.3			none		ļ
Anril			6.7-6.7-6.7				!	
April			0.0-0.5-2.5			occasional	brief	0.0-0.3-0.
Marr	wet		6.7-6.7-6.7				!	
May			0.3-0.8-3.3			occasional	brief	0.0-0.3-0.
_			6.7-6.7-6.7				!	
June			0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7				ļ	
July			1.6-3.0-4.9			none		
			6.7-6.7-6.7				ļ	
August			2.5-3.8-5.7			none		
			6.7-6.7-6.7					
September	moist		2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.
0 1 1	wet   moist		6.7-6.7-6.7   1.3-1.6-4.1				 	
October			1.3-1.6-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.3-0.
November			6.7-6.7-6.7     0.8-1.3-3.3				   brief	  0.0-0.3-0.!
November				none		occasional	prier	0.0-0.3-0.:
Dagamba	wet		6.7-6.7-6.7				1	 
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7			ļ	ļ.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I18A (continued)

Flaming (4 percent of the map unit)

Month   M	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H			ļ	ļ	L - R - H
	.							
January	   moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	 	 
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none		none		
	wet	5.2-6.2-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none		
	wet	2.1-2.5-6.7	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7					
Tune	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.9-6.7					
	wet	4.1-4.9-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7				l	l
	1	l	1 1		l	I	I	I

Grimstad (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		 	 	 	L - R - H 
January	   moist	  0.0-0.0-0.0	  2.5-3.8-5.7	none	 	none	 	 
	wet		6.7-6.7-6.7					
February	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7		!	!	!	ļ
March	moist		2.5-3.0-5.7	none		none	!	
	wet		6.7-6.7-6.7		!	!	!	
April	moist		0.8-1.5-3.3	none		none	ļ	
_	wet		6.7-6.7-6.7					
May	moist		1.1-1.8-4.1	none		none		
_			6.7-6.7-6.7			!		
June	moist		1.6-3.3-4.9			none		
T 7			6.7-6.7-6.7   0.0-0.0-0.3					
July	dry   moist		0.0-0.0-0.3   2.5-5.7-6.2	none		none		
	wet		2.3-3.7-6.2     6.7-6.7-6.7		l I	l i	 	l I
August	wet   dry		10.0-0.0-0.5		l I	l none	! !	l I
August	moist		6.7-6.7-6.7	none	 i	l none		 
September			10.0-0.0-0.3	none	! !	l none	¦ 	 
	moist		12.5-3.8-6.7		! 		i	i I
	wet		6.7-6.7-6.7		i i	i	i	i I
October	moist		2.0-3.0-5.6	none	i	none	i	i
	wet	2.0-3.0-5.6	6.7-6.7-6.7		İ	i	i	İ
November	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none	i	
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	i	İ	İ
December	moist	0.0-0.0-0.0	2.0-3.3-5.4	none	i	none	j	i
	wet	2.0-3.3-5.4	6.7-6.7-6.7		İ	İ	İ	İ
	l		li					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I18A (continued)

Linveldt (2 percent of the map unit)

Month	  Moisture	Top	Bottom	Flooding	   Flooding	Ponding	   Ponding	Ponding
11011011	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L - R - H
	ļ				 	ļ		
January	moist		4.8-5.4-6.7	none		none		 
	wet		6.7-6.7-6.7					
February	moist		5.2-5.7-6.7			none		
	wet		6.7-6.7-6.7			!	!	
March	moist		3.3-4.6-6.7			none	!	
	wet		6.7-6.7-6.7			!	!	
April	moist		1.3-2.5-4.9	none		none		
	wet		6.7-6.7-6.7					
May	moist		2.0-3.0-5.6			none		
<b>-</b>	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.5			none		
	moist		2.6-3.6-6.2					l
T-1	wet		6.7-6.7-6.7		 			
July	dry moist		0.0-0.0-0.7	none		none		
	moist   wet		3.9-5.4-6.7   6.7-6.7-6.7		l i	ļ		 
August	wet   dry		6.7-6.7-6.7     0.0-0.0-1.0	none	 	l none	 	 
August	dry   moist		0.0-0.0-1.0   5.4-6.7-6.7		 	i none	 	 
	moist   wet		6.7-6.7-6.7		l I	l I	l I	l I
September			0.7-0.7-0.7		l 	l none	! !	 
pepcember	moist		4.1-4.6-6.7		 	l none	 	 
	wet		6.7-6.7-6.7		! 	! !	! !	! 
October	moist		3.6-3.9-6.7	none		l none	i	i
000000	wet		6.7-6.7-6.7		! 		İ	i İ
November	moist		2.5-3.3-5.7		i	l none	i	i
	wet		6.7-6.7-6.7		İ		i	i
December	moist		3.9-4.6-6.2			none	i	
	wet		6.7-6.7-6.7		İ	i	i	İ
	i	İ	, , , ,		İ	i	i	i

Eckvoll (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H 	L - R - H		 	 	 	L - R - F 
January	moist	  0.0-0.0-0.0	4.6-5.4-6.7	none	j I	none	j I	j I
		4.6-5.4-6.7			İ		i	i
February		0.0-0.0-0.0		none	i	none	i	i
_	wet	4.9-5.7-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none	j	none	j	j
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0		none		none		
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0		none		none		
		2.6-3.1-5.2			!	ļ	!	!
June		0.0-0.0-0.0		none		none		ļ
		0.0-0.0-0.3						
July		2.6-3.8-6.2   0.0-0.0-0.0						!
July		0.0-0.0-0.0   0.0-0.0-0.5		none	 	none	 	
	wet	3.8-4.9-6.7			l I	l I	l I	! !
August		0.0-0.0-0.0		none	! !	l none	! !	 
.agube		0.0-0.0-0.8		110110	! 	110110	! 	İ
	wet	5.2-6.7-6.7			i	İ	i	i
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none	i	i
	moist	0.0-0.0-0.3	3.8-4.1-6.7		İ	İ	İ	İ
	wet	3.8-4.1-6.7	6.7-6.7-6.7		İ	İ	İ	İ
October	moist	0.0-0.0-0.0	3.3-3.8-6.7	none	i	none	i	i
	wet	3.3-3.8-6.7						
November	moist	0.0-0.0-0.0		none		none		
	wet	2.5-3.3-5.6						
December	moist	0.0-0.0-0.0		none	ļ	none	ļ	!
	wet	3.8-4.1-6.2	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I18A (continued)

Strathcona (1 percent of the map unit)

Month	  Moisture   status 	Top depth L-R-H	Bottom depth L - R - H	Flooding frequency	Flooding duration	Ponding frequency	Ponding duration	Ponding depth L - R - H
January	moist		  1.6-3.0-4.1  6.7-6.7-6.7			none	 	 
February	moist	0.0-0.0-0.0	2.5-3.3-4.9			none		
March	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   1.6-2.1-4.1   6.7-6.7-6.7			none none	 	 
April	wet   moist   wet	0.0-0.0-0.0	0.7-6.7-6.7  0.0-0.5-2.5  6.7-6.7-6.7	none		  occasional 	   brief 	  0.0-0.3-0.5 
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
June	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   0.8-1.6-4.1   6.7-6.7-6.7	none		   rare	  very brief	0.0-0.1-0.3
July	wet   moist   wet	0.0-0.0-0.0	1.6-3.3-4.9     6.7-6.7-6.7	none		none	 	 
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		 
September	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   1.6-3.3-4.9   6.7-6.7-6.7	none		none	 	 
October	wet   moist   wet	0.0-0.0-0.0	1.3-2.5-4.1  6.7-6.7-6.7	none		   rare	  very brief	0.0-0.1-0.3
November	moist	0.0-0.0-0.0	0.7-0.7-0.7  0.8-1.6-3.3  6.7-6.7-6.7	none		rare	very brief	0.0-0.1-0.3
December	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   1.3-2.1-3.8   6.7-6.7-6.7			none	 	   
						i	İ	İ

\*

I19A Foxhome sandy loam, 0 to 3 percent slopes

Foxhome (65 percent of the map unit)

Month	Moisture status	Top depth L - R - H	Bottom   depth   L-R-H	Flooding frequency	Flooding   duration 	Ponding   frequency 	Ponding   duration 	Ponding depth L-R-H
i	i		i		İ	İ	İ	i 
January			4.8-5.4-6.7	none		none		
. !			6.7-6.7-6.7			ļ	!	!
ebruary		0.0-0.0-0.0		none		none		ļ
. , !			6.7-6.7-6.7					
March			3.3-4.6-6.7	none		none		
April			6.7-6.7-6.7		 			!
iprii			1.3-2.5-4.9	none		none		
May			6.7-6.7-6.7   2.0-3.0-5.6		l I		l I	! !
102			2.0-3.0-5.6   6.7-6.7-6.7	none	 	none	 	
June			0.7-0.7-0.7	none	l I	l none	! !	! !
l l			2.6-3.6-6.2	110116	 	l none	 	
ŀ			6.7-6.7-6.7		l İ		! !	¦
uly			0.0-0.0-0.7	none		none	i	i
			3.9-5.4-6.7		l I		i	i
i			6.7-6.7-6.7			i	i	i
ugust			0.0-0.0-1.0	none		none	i	i
i	moist	0.0-0.0-1.0	5.4-6.7-6.7		İ	i	İ	İ
i	wet	5.4-6.7-6.7	6.7-6.7-6.7		İ	i	İ	İ
eptember	dry	0.0-0.0-0.0	0.0-0.0-0.3	none	i	none	i	j
i	moist	0.0-0.0-0.3	4.1-4.6-6.7		İ	İ	İ	İ
į	wet	4.1-4.6-6.7	6.7-6.7-6.7		İ	İ	İ	İ
ctober	moist	0.0-0.0-0.0	3.6-3.9-6.7	none		none	i	i
İ	wet	3.6-3.9-6.7	6.7-6.7-6.7			ĺ	ĺ	ĺ
ovember	moist	0.0-0.0-0.0	2.5-3.3-5.7	none		none	i	i
			6.7-6.7-6.7					
ecember			3.9-4.6-6.2	none		none		
I	wet	3.9-4.6-6.2	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I19A (continued)

Kittson (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		[ [		 	L - R - H 
January	moist		4.1-5.4-6.7	none		none		   
Uanuar y		4.1-5.4-6.7		none	 	none	 	 
February	moist		4.9-5.9-6.7	none	' 	none	i	i
2			6.7-6.7-6.7		İ		i	i
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none	i	none	i	i
i	wet	3.3-4.9-6.7	6.7-6.7-6.7		İ	İ	İ	j
April	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet	1.6-2.5-4.1	6.7-6.7-6.7				[	
May	moist		2.1-2.8-4.9	none		none		
			6.7-6.7-6.7					
June			0.0-0.0-0.3	none		none		ļ
			2.6-3.1-5.7			!	!	!
_			6.7-6.7-6.7			ļ	!	!
July			0.0-0.0-0.3	none		none	ļ	ļ
			3.3-5.7-6.7					
			6.7-6.7-6.7				!	
August	dry moist	0.0-0.0-0.0	0.0-0.0-0.5   4.9-6.7-6.7	none		none		
			4.9-6.7-6.7   6.7-6.7-6.7		l i		 	! !
September			0.0-0.0-0.3	none	l 	   none	 	 
Бересмыет			3.6-4.9-6.7	110110	! 	110110	i	i
			6.7-6.7-6.7		i I	i	i	i
October			3.0-4.3-5.7	none		none	i	i
	wet	3.0-4.3-5.7	6.7-6.7-6.7		: 	i	i	i
November	moist	0.0-0.0-0.0	2.3-3.3-4.9	none	i	none	j	j
	wet	2.3-3.3-4.9	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	3.3-4.6-5.7	none		none	j	
İ	wet	3.3-4.6-5.7	6.7-6.7-6.7		I	1	I	I

Strandquist (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L - R - H	L-R-H		 	 	<u> </u> 	L - R - H 
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		i i
_	wet	1.6-3.0-4.1	6.7-6.7-6.7		į	İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	j	none	j	j
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	j	İ	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					[
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ	ļ	ļ	ļ
July	moist		1.6-3.3-4.9		!	none	ļ	!
	wet		6.7-6.7-6.7		!	ļ	!	!
August	moist		2.5-4.1-5.7	none	ļ	none		!
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9		ļ	none	ļ	!
0 -1 -1	wet		6.7-6.7-6.7					
October	moist   wet		1.3-2.5-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.3-0.5
November	wet   moist		0.7-6.7-6.7   0.8-1.6-3.3		 			
November	moist   wet		0.8-1.6-3.3   6.7-6.7-6.7		<del></del>	none		
December	wet   moist		0.7-6.7-6.7   1.3-2.1-3.8		l 	l none	 	l 
pecemper	moist   wet		1.3-2.1-3.8   6.7-6.7-6.7	none		none		
	l wer	1	0 • / <del>-</del> 0 • / <del>-</del> 0 • /   		] 			! !
	I ———				l —————————	_	· I	I ————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I19A (continued)

Foldahl (5 percent of the map unit)

	I		I			I		I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	ļ	L-R-H	L-R-H				ĺ	L-R-H
January	moist		4.6-5.4-6.7	none		none	j	
	wet		6.7-6.7-6.7			!	!	
February	moist		4.9-5.7-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.3-2.5-4.6	none		none		
			6.7-6.7-6.7					
May	moist		2.0-3.1-5.2	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
	moist		2.6-3.8-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5	none		none		
	moist		3.8-4.9-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.7	none		none		
	moist		5.2-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3	none		none		
	moist		3.8-4.1-6.7					
	wet	3.8-4.1-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.3-3.8-6.7	none		none		
	wet	3.3-3.8-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-3.3-5.6	none		none		
	wet	2.5-3.3-5.6	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	3.8-4.1-6.2	none		none		
	wet	3.8-4.1-6.2	6.7-6.7-6.7			ļ	I	l

Grimstad (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   				 	L - R - H 
January	moist	0.0-0.0-0.0	  2.5-3.8-5.7	none		none	i 	i I
	wet	2.5-3.8-5.7	6.7-6.7-6.7			İ	İ	İ
February	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none	j	j
	wet	3.3-4.6-6.7	6.7-6.7-6.7			İ	ĺ	ĺ
March	moist	0.0-0.0-0.0	2.5-3.0-5.7	none		none		
	wet	2.5-3.0-5.7	6.7-6.7-6.7					
-1	moist	0.0-0.0-0.0	0.8-1.5-3.3	none		none		
	wet	0.8-1.5-3.3	6.7-6.7-6.7					
fay   i	moist	0.0-0.0-0.0	1.1-1.8-4.1	none		none		
	wet	1.1-1.8-4.1	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.5-5.7-6.2					
	wet	2.5-5.7-6.2	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.5-3.8-6.7					
	wet		6.7-6.7-6.7					
October	moist		2.0-3.0-5.6	none		none		
	wet		6.7-6.7-6.7					
November			1.6-2.5-4.9	none		none		
			6.7-6.7-6.7					
December	moist		2.0-3.3-5.4	none		none		
	wet	2.0-3.3-5.4	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I19A (continued)

Roliss (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 			L - R - H
_								
January	moist		1.6-3.0-4.1	none		none		
<b>-</b> -1	wet   moist		6.7-6.7-6.7   2.5-3.3-4.9				1	
February	moist   wet			none		none		
March	wet   moist		6.7-6.7-6.7   1.3-2.1-3.3				 	 
March	moist   wet		1.3-2.1-3.3   6.7-6.7-6.7			none		
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5	none	I I	  occasional	   brief	  0.0-0.3-0.!
ADIII	wet		0.0-0.3-2.5   6.7-6.7-6.7	none		Occasional	l prier	1
May	wet   moist		0.7-0.7-0.7   0.3-0.8-3.3	none	l	  occasional	   brief	  0.0-0.3-0.
nay	wet		6.7-6.7-6.7			l	l prier	0 • 0 = 0 • 5 = 0 • ·
June	moist		0.7-0.7-0.7   0.7-1.3-4.1	none		occasional	very brief	I   0
ounc			6.7-6.7-6.7	110110	i i	I		O.O O.S O.
July	moist		1.6-3.0-4.9	none	i	none	i	i
0 412			6.7-6.7-6.7		i		i	İ
August			2.5-3.8-5.7			none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
September	moist		2.0-3.3-4.9	none	i	rare	very brief	0.0-0.3-0.
-	wet	2.0-3.3-4.9	6.7-6.7-6.7		i	i	i -	i
October	moist	0.0-0.0-0.0	1.3-1.6-4.1	none	j	rare	very brief	0.0-0.3-0.
	wet	1.3-1.6-4.1	6.7-6.7-6.7		İ	i	į -	İ
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.8-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		i
	wet	1.3-2.1-3.8	6.7-6.7-6.7		1		1	I
	I	I	ĺ		1	I		I

Mavie (2 percent of the map unit)

	I	1	I I		Ī	ī	I	I
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		 
oanuar y	wet		6.7-6.7-6.7		 	I none		 
February	moist		2.5-3.3-4.9		i	none	i	! !
2	wet		6.7-6.7-6.7		i		i	i
March	moist		1.6-2.1-4.1		i	none		i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		i	i	İ	i
April   m	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7		į	i	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		1			
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		[			
July	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
November	moist		0.8-1.6-3.3		!	none	ļ	!
	wet		6.7-6.7-6.7		!	!	!	!
December	moist		1.3-2.1-3.8	none	!	none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!	!	!	!
	l					- I	.	

## Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I20A Foxlake loam, 0 to 2 percent slopes

Foxlake (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 			L - R - H 
January	moist	In n=n n=n n	    0.8-2.1-4.1	none	   	none		
andar y	wet		6.7-6.7-6.7	none	 	none		 
ebruary	moist		11.6-2.5-4.9	none		l none		
	wet		6.7-6.7-6.7		İ		i	
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none	i	none	j	
	wet	0.3-1.3-3.3	6.7-6.7-6.7		j	j	į	İ
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
May	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July	moist		1.3-2.1-4.1	none		rare	very brief	0.0-0.2-0.
			6.7-6.7-6.7		!			
August	moist		1.6-3.0-4.9	none		rare	very brief	0.0-0.2-0.
			6.7-6.7-6.7					
September	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.2-0.
N	wet   moist		6.7-6.7-6.7			  occasional		
October	moist   wet		0.8-1.6-3.3   6.7-6.7-6.7	none		occasional	very brief	0 . 0 - 0 . 2 - 0
Jovember	wet   moist		0.7-0.7-0.7   0.5-1.3-2.5	none	l I	  occasional	   brief	  0.0-0.3-0.
Ovember	wet		0.3-1.3-2.3   6.7-6.7-6.7	none	1 1	l	l prier	0 • 0 = 0 • 3 <b>=</b> 0 • :
December	wet   moist		0.7-0.7-0.7   0.8-1.6-3.3	none	I	   none		 
CCCIIDEL	wet		6.7-6.7-6.7	110116	 	1 110116		

Clearwater (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L-R-H
January	moist	0.0-0.0-0.0	0.8-2.1-4.1	none		none		
	wet	0.8-2.1-4.1	6.7-6.7-6.7			[		
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none		
	wet	1.6-2.5-4.9	6.7-6.7-6.7			[		
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none		
	wet	0.3-1.3-3.3	6.7-6.7-6.7			[		
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.3-3.3			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.3-2.1-4.1			rare	very brief	0.0-0.2-0.3
			6.7-6.7-6.7					
August	moist		1.6-3.0-4.9			rare	very brief	0.0-0.2-0.3
			6.7-6.7-6.7					
September	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.2-0.3
			6.7-6.7-6.7					
October	moist		0.8-1.6-3.3			occasional	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7			!		
November			0.5-1.3-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	!	!	
December	moist		0.8-1.6-3.3	none	ļ	none	ļ	
	wet	0.8-1.6-3.3	6.7-6.7-6.7		!	ļ.	!	
					l			

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I20A (continued)

Foxlake, very cobbly (5 percent of the map unit)

					[	1		l
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 .	 	L - R - н 
January	   moist	    0.0-0.0-0.0	  0.8-2.1-4.1	none		none	i I	i I
•	wet		6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none	i	i
	wet	1.6-2.5-4.9	6.7-6.7-6.7		į	i	i	İ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none	j	none	j	i
	wet	0.3-1.3-3.3	6.7-6.7-6.7		1			
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.0-1.6	6.7-6.7-6.7		[			
May	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		1			
June	moist		0.8-1.3-3.3			occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
July	moist		1.3-2.1-4.1			rare	very brief	0.0-0.2-0.
			6.7-6.7-6.7		ļ	ļ		
August	!		1.6-3.0-4.9		!	rare	very brief	0.0-0.2-0.
	wet		6.7-6.7-6.7			!	!	
September	•		1.3-2.5-4.1		ļ	rare	very brief	0.0-0.2-0.
			6.7-6.7-6.7					
October	moist		0.8-1.6-3.3			occasional	very brief	0.0-0.2-0.
	wet		6.7-6.7-6.7				1 1	
November	moist		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.
Db	wet		6.7-6.7-6.7   0.8-1.6-3.3		1		1	l I
December	moist   wet		0.8-1.6-3.3   6.7-6.7-6.7	none		none		
	wet	10.0-1.6-3.3	0 • / - 0 • 7 - 6 • 7   		[ [	1	I I	l I
	I	l ————				- I —————	l	l

Augsburg (3 percent of the map unit)

	1	I	I I		Ī	I		
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H
January	moist			none		none		İ
January	wet		1.0-2.1-4.1   6.7-6.7-6.7		 	Hone		
February	moist		2.0-2.6-4.9		<u> </u>	   none		
rebruary	wet		6.7-6.7-6.7		 	none		
March	moist		11.5-2.3-4.9		¦	none	i	
	wet		6.7-6.7-6.7		i		i	i
April	moist		0.0-0.5-2.5		i	occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		i			
May	moist		0.5-0.8-3.3		i	occasional	brief	0.0-0.3-0.
-	wet	0.5-0.8-3.3	6.7-6.7-6.7		i	İ	i	i
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		İ	İ	İ	İ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none	j	none	ļ	i
	wet	1.6-3.0-4.9	6.7-6.7-6.7		İ	İ	İ	İ
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7		[			
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		1			
October	moist		1.3-2.5-4.1			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
November	moist		0.8-1.6-3.3			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
December	moist		1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7		ļ	ļ	ļ	1
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I20A (continued)

Clearwater, depressional (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 	L - R - H
January	moist	0.0-0.0-0.0	0.5-1.3-2.5	none	 	occasional	long	0.0-0.5-1.0
_	wet	0.5-1.3-2.5	6.7-6.7-6.7		İ	i	i	i
February	moist	0.0-0.0-0.0	0.8-1.6-3.0	none	i	occasional	long	0.0-0.5-1.0
	wet	0.8-1.6-3.0	6.7-6.7-6.7		İ	į	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
April m	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.5-1.6	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7		!			!
August	moist		0.8-1.6-3.0	none	ļ	occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
September	moist		0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.0
0 1 1	wet		6.7-6.7-6.7			1		
October	moist wet		0.3-0.8-2.0	none		occasional	brief	0.0-0.5-1.0
November	wet   moist		6.7-6.7-6.7   0.2-0.5-1.6		 	  occasional	   long	10.0-0.5-1.0
November	moist   wet		0.2-0.5-1.6   6.7-6.7-6.7	none	<del></del>	loccasionai	l rong	10.0-0.5-1.0
December	wet   moist		0.7-6.7-6.7   0.3-0.8-2.0	none	l I	  occasional	l l long	10.0-0.5-1.0
Secember	moist   wet	0.3-0.8-2.0		110116	]	loccasionai	l rond	10.0-0.5-1.0

Espelie (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	1	 	L - R - H 
January	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	   	none	   	   
			6.7-6.7-6.7		i		i	
February	moist		2.0-2.6-4.9	none	i	none	i	
	wet	2.0-2.6-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none		none		
	wet	1.5-2.3-4.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May			0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			ļ		
July			1.6-3.0-4.9	none	ļ	none	ļ	
			6.7-6.7-6.7			!	ļ	
August			2.5-3.8-5.7	none		none		
			6.7-6.7-6.7					
September	moist		1.6-3.3-4.9	none		rare	very brief	0.0-0.1-0.3
October			6.7-6.7-6.7   1.3-2.5-4.1		 		 	  0.0-0.1-0.3
October			1.3-2.5-4.1   6.7-6.7-6.7	none	 	rare	very brier	0.0-0.1-0.3
November			0.7-0.7-0.7   0.8-1.6-3.3	none	l I	   rare	lucry brief	  0.0-0.1-0.3
MOAEMBET	wet		0.8-1.8-3.3   6.7-6.7-6.7	none	- <b></b>	l rare		0.0-0.1 <b>-</b> 0.3
December	wet     moist		1.3-2.0-3.9	none	! 	   none		I I
December			1.3-2.0-3.9 <sub> </sub>  6.7-6.7-6.7	110116	I	1 110116		I
			• • • • • • • • • • • • • • • • • • •		 	!	-	! !

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I20A (continued)

Hilaire (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H				[	L - R - H
January	moist	0.0-0.0-0.0	4.6-5.4-6.7	none		none		
	wet	4.6-5.4-6.7	6.7-6.7-6.7			[	1	
February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none		none		
	wet	4.9-5.7-6.7	6.7-6.7-6.7			[	[	
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7			[	[	
April	moist	0.0-0.0-0.0	1.6-2.5-4.6	none		none		
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.3-3.0-5.2	none		none		
	wet	2.3-3.0-5.2	6.7-6.7-6.7			[	[	
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.8-3.8-6.2			[	[	
	wet	2.8-3.8-6.2	6.7-6.7-6.7			[		
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	3.8-4.6-6.7			[		
	wet	3.8-4.6-6.7	6.7-6.7-6.7			[		
August	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	5.2-6.7-6.7			[		
	wet	5.2-6.7-6.7	6.7-6.7-6.7			[		
September	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	3.8-4.1-6.7			[		
	wet	3.8-4.1-6.7	6.7-6.7-6.7			[		
October	moist	0.0-0.0-0.0	3.3-3.8-6.7	none		none		
	wet	3.3-3.8-6.7	6.7-6.7-6.7			[		
November	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7				1	l
December	moist	0.0-0.0-0.0	3.8-4.1-5.7	none		none	j	
	wet	3.8-4.1-5.7	6.7-6.7-6.7				1	l
	I	I	li		l	I	l	l

Reis (2 percent of the map unit)

	1	1	1			1	1	<u> </u>
Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	   Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H	 	İ	İ	į Į	L - R - H
_								
January	moist		1.6-2.1-4.1	•		none	ļ	
	wet		6.7-6.7-6.7			!	!	
February	moist		2.0-2.6-4.9	•		none		
	wet		6.7-6.7-6.7	•			ļ	
March	moist		0.8-2.0-3.9			none		
	wet		6.7-6.7-6.7			!	!	ļ
April	moist		0.0-0.5-2.5			none		ļ
	wet		6.7-6.7-6.7				!	
May	moist		0.3-0.8-3.0	•		none		
_	wet		6.7-6.7-6.7	•		!	!	ļ
June	moist		0.8-1.6-3.6			none		
T-1	wet		6.7-6.7-6.7	•			!	
July	moist		1.6-2.8-4.6			none		
3	wet   moist		6.7-6.7-6.7 2.5-3.6-5.4					 
August				•		none		
a	wet   moist		6.7-6.7-6.7	•			!	l
September	moist		1.6-3.1-4.6   6.7-6.7-6.7			none		
October	wet   moist		11.1-2.0-4.1				l 	l i
October	moist   wet		1.1-2.0-4.1   6.7-6.7-6.7			none		
November	wet   moist		0.7-0.7-6.7				 	l I
MOVEMBEL	moist   wet		6.7-1.6-3.3   6.7-6.7-6.7	•		none		 
December	wet   moist		11.1-2.0-3.8	•		l none	1	l i
December	moist		1.1-2.0-3.8   6.7-6.7-6.7			none		 
	l Mer	1 - 1 - 2 - 0 - 3 - 8	0 . / - 0 . / - 0 . /	] 		] 	I I	l I
	I				l —————		l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I20A (continued)

Wheatville (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - F 
January	   moist	0.0-0.0-0.0	  2.5-3.8-5.7	none	 	none	 	 
_	wet	2.5-3.8-5.7	6.7-6.7-6.7		İ	i	i	İ
February	moist	0.0-0.0-0.0	3.3-4.6-6.7	none	j	none	j	j
	wet	3.3-4.6-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	2.5-3.0-5.7	none		none		
	wet	2.5-3.0-5.7	6.7-6.7-6.7			[		
April	moist		0.7-1.3-3.3	none		none		
	wet		6.7-6.7-6.7		[	ļ	ļ	
May	moist		1.0-1.6-4.1	none	ļ	none	!	!
			6.7-6.7-6.7		!	!	!	!
June	moist		1.6-2.5-4.9		ļ	none	ļ	!
	wet		6.7-6.7-6.7			ļ		
July	moist		2.5-3.8-6.2	none		none		ļ
August	wet   dry		6.7-6.7-6.7   0.0-0.0-0.3	none	l I		 	 
August	dry   moist		3.8-6.7-6.7		 	none	 	 
	wet		6.7-6.7-6.7		! !	¦	! !	<u> </u>
September			2.5-3.8-6.2		 	l none	 	 
Бересшвег	wet		6.7-6.7-6.7	110110	i i	110110	i i	i
October	moist		12.0-3.0-5.6	none	i	l none	i	i
	wet		6.7-6.7-6.7		İ		i	i
November	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none	i	i
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	2.0-3.3-5.4	none	j	none	j	j
	wet	2.0-3.3-5.4	6.7-6.7-6.7		İ	ĺ	ĺ	İ
	I	l	li					

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I22A Glyndon loam, 0 to 2 percent slopes

Glyndon (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		[ [		 	L - R - H 
January	moist	0.0-0.0-0.0	    2.5-4.1-6.7	none		none		   
0 4114417	wet		6.7-6.7-6.7		! 		İ	i
February	moist		3.3-4.9-6.7	none		none	i	i
-	wet	3.3-4.9-6.7	6.7-6.7-6.7		İ	İ	İ	į
March	moist	0.0-0.0-0.0	2.5-3.9-5.7	none	i	none	j	j
	wet	2.5-3.9-5.7	6.7-6.7-6.7		İ	İ	j	İ
April	moist	0.0-0.0-0.0	0.7-1.0-3.3	none		none	i	j
	wet	0.7-1.0-3.3	6.7-6.7-6.7			1		
May	moist	0.0-0.0-0.0	1.0-1.6-4.1	none		none		
	wet	1.0-1.6-4.1	6.7-6.7-6.7					
June	moist		1.6-2.5-4.9	none		none		
	•		6.7-6.7-6.7					
July	dry		0.0-0.0-0.2	none		none		
	moist		2.5-3.9-6.7			!	!	!
	wet		6.7-6.7-6.7			!	!	!
August	dry		0.0-0.0-0.3	none		none		!
	moist		3.3-6.7-6.7			!		!
a 1	wet   moist		6.7-6.7-6.7   2.5-4.6-6.2		l i			
September	moist   wet		2.5-4.6-6.2   6.7-6.7-6.7	none		none		
October	wet   moist		0./-0./-0./   2.0-4.1-5.7	none	 	l none	l I	l i
October	moist   wet		2.0-4.1-3.7   6.7-6.7-6.7	none	 	i none	 	
November	wet   moist		1.6-3.0-4.1	none	l I	l none	! 	¦
140 A GWIDET	wet		6.7-6.7-6.7	110116	 	l mone	I	]
December	moist		2.0-3.8-4.9	none	! 	l none	! 	i
	wet	2.0-3.8-4.9			! 		¦	:

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I22A (continued)

Borup (10 percent of the map unit)

Month	  Moisture	   Top	   Bottom	Flooding	Flooding	   Ponding	   Ponding	   Ponding
11011011	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L-R-H
	i		 			İ	İ	
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none		none	i	i
	wet	1.6-3.0-4.1	6.7-6.7-6.7			İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none	j	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none	i	
	wet	1.3-2.1-3.3	6.7-6.7-6.7			ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.3-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	2.0-3.3-4.9	none		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.1-0.3
	wet	1.3-1.6-4.1	6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
						l	l	

Augsburg (5 percent of the map unit)

	1	I	I I		Ī	I		
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H
January	moist			none		none		İ
January	wet		1.0-2.1-4.1   6.7-6.7-6.7		 	Hone		
February	moist		2.0-2.6-4.9		<u> </u>	   none		
rebruary	wet		6.7-6.7-6.7		 	none		
March	moist		11.5-2.3-4.9		¦	none	i	
	wet		6.7-6.7-6.7		i		i	i
April	moist		0.0-0.5-2.5		i	occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		i			
May	moist		0.5-0.8-3.3		i	occasional	brief	0.0-0.3-0.
-	wet	0.5-0.8-3.3	6.7-6.7-6.7		i	İ	i	i
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		İ	İ	İ	İ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none	j	none		i
	wet	1.6-3.0-4.9	6.7-6.7-6.7		İ	İ	İ	İ
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7		[			
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		1			
October	moist		1.3-2.5-4.1			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
November	moist		0.8-1.6-3.3			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
December	moist		1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7		ļ	ļ	ļ	1
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I22A (continued)

Ulen (5 percent of the map unit)

Month	Moisture    status	Top depth	Bottom   depth	Flooding frequency	Flooding duration	Ponding   frequency	Ponding   duration	Ponding depth
	status     	L-R-H	depth     L - R - H   	rrequency	duration 	rrequency	duration	depth   L - R - H
January	   moist		    2.6-3.3-5.9	none	   	     none	   	   
January			6.7-6.7-6.7	110110	! 		i	i
February	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	j
	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	İ	İ	ĺ
March	moist		2.6-3.3-5.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.5-2.0-3.3	none		none		
			6.7-6.7-6.7			!	!	!
May	!		2.0-2.5-4.1	none		none		
<b>-</b>	wet		6.7-6.7-6.7   0.0-0.0-0.3					!
June	dry moist		0.0-0.0-0.3   2.5-3.0-4.9	none	 	none		
	moist		2.3-3.0-4.9   6.7-6.7-6.7		 		 	! !
July	dry		0.7-0.7-0.7   0.0-0.0-0.5	none	l 	none	! !	! !
July			3.0-4.9-6.2	110110	! 	110110	i	i
			6.7-6.7-6.7		İ	i	i	i
August	dry		0.0-0.0-0.7	none	i	none	i	i
_	moist	0.0-0.0-0.7	6.7-6.7-6.7		İ	İ	İ	İ
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none	j	i
	moist		2.6-4.9-6.7					
			6.7-6.7-6.7					
October	moist		2.3-3.0-5.7	none		none		
	wet		6.7-6.7-6.7			ļ	!	!
November	moist		2.0-2.5-4.9	none	ļ	none	!	!
	wet		6.7-6.7-6.7			ļ		
December	moist     wet		2.3-3.0-5.2	none		none		
	wet	2.3-3.0-5.2	6.7-6.7-6.7		!	!	!	!

Wheatville (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H		 	 	 	L - R - H 
January	moist	    0.0-0.0-0.0	2.5-3.8-5.7	none	 	none	i I	i I
	wet	2.5-3.8-5.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
February	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
March	moist		2.5-3.0-5.7			none		
	wet		6.7-6.7-6.7					
April	moist		0.7-1.3-3.3			none		
	wet	•	6.7-6.7-6.7					
May	moist		1.0-1.6-4.1			none		ļ
	wet		6.7-6.7-6.7		!	!	!	!
June	moist		1.6-2.5-4.9		ļ	none	!	!
_	wet		6.7-6.7-6.7			<u> </u>	!	!
July	moist		2.5-3.8-6.2			none		
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.3			none		
	moist   wet		3.8-6.7-6.7   6.7-6.7-6.7		 	 	 	
September			2.5-3.8-6.2		l i	l I none	! !	! !
september	wet		6.7-6.7-6.7		 	i none	 	 
October	wet   moist		2.0-3.0-5.6		! !	l none	 	! !
Occoper	wet		6.7-6.7-6.7		 	l Hone	 	 
November	moist		1.6-2.5-4.9		l	l none	! !	 
v Child'l	wet		6.7-6.7-6.7		! 		i	i
December	moist		2.0-3.3-5.4		i	l none		i
	wet		6.7-6.7-6.7		i I		i	İ
					i	i	i	i
						. — — — — — — — — — — — — — — — — — — —		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I22A (continued)

Flaming (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L-R-H		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0		none		none		
		4.6-5.4-6.7				!	l	l
February			5.2-6.2-6.7	none		none		
			6.7-6.7-6.7					
March			3.3-4.1-6.7	none		none		
			6.7-6.7-6.7			!	l	l
April	moist		2.1-2.5-6.7	none		none		
			6.7-6.7-6.7					
May			2.5-2.8-5.7	none		none		ļ
<b>-</b>			6.7-6.7-6.7					
June			0.0-0.0-0.3			none		
			2.6-3.3-6.7					
<b>-</b> 1			6.7-6.7-6.7				ļ	ļ
July			0.0-0.0-0.7   6.7-6.7-6.7	none		none		
			0.7-6.7-6.7   0.0-0.0-1.0					
August			0.0-0.0-1.0   6.7-6.7-6.7	none		none		
a			0.7-6.7-6.7   0.0-0.0-0.3		 		l I	l i
September	dry     moist		0.0-0.0-0.3   4.1-4.9-6.7	none		none		
			4.1-4.9-6.7   6.7-6.7-6.7		l I	l i	l I	l I
October			8.7-6.7-6.7   3.3-4.6-6.7		 		l i	l i
October		0.0-0.0-0.0   3.3-4.6-6.7		none	<del></del>	none		
November	wet     moist		6.7-6.7-6.7   2.5-4.1-5.7	none	  -	l none	l I	l i
MOVEHIDEL			2.3-4.1-3.7   6.7-6.7-6.7	none	<del></del>	l noue	 	<del></del>
December	wet     moist				 		 	 
December			4.1-4.9-6.7   6.7-6.7-6.7	none	ļ	none		
	wet	4.1-4.9-6.7	0.7-6.7-6.7		I	1	l	l

I24A Grimstad fine sandy loam, 0 to 3 percent slopes

Grimstad (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 	 .	 	L - R - H
January	moist	  0.0-0.0-0.0	  2.5-3.8-5.7	none	 	none	j I	j I
_	wet	2.5-3.8-5.7	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none	j	j
	wet	3.3-4.6-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	2.5-3.0-5.7	none		none	i	j
	wet	2.5-3.0-5.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.8-1.5-3.3	none		none		
	wet	0.8-1.5-3.3	6.7-6.7-6.7					
May	moist		1.1-1.8-4.1	none		none		
	wet	1.1-1.8-4.1	6.7-6.7-6.7					
June			1.6-3.3-4.9	none		none		
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.3	none		none		
	moist		2.5-5.7-6.2					
			6.7-6.7-6.7					
August	dry		0.0-0.0-0.5	none		none		
	moist		6.7-6.7-6.7			ļ		
September			0.0-0.0-0.3	none		none	ļ	ļ
	moist		2.5-3.8-6.7			ļ	!	ļ
			6.7-6.7-6.7			!	!	!
October			2.0-3.0-5.6	none		none	!	!
	wet		6.7-6.7-6.7			ļ	!	ļ
November	moist		1.6-2.5-4.9	none		none	!	!
			6.7-6.7-6.7			ļ	!	!
December	moist		2.0-3.3-5.4	none		none	ļ	!
	wet	2.0-3.3-5.4	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I24A (continued)

Strathcona (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 		 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	 	none	i 	 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		i	i	į	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7			1		
July	moist		1.6-3.3-4.9	none	!	none	ļ	
			6.7-6.7-6.7			ļ.	!	
August	moist		2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7			ļ		
September	moist		1.6-3.3-4.9	none		none		
0 - 1 - 1			6.7-6.7-6.7					
October	moist wet		1.3-2.5-4.1	none		rare	very brier	0.0-0.1-0.3
November	wet   moist		6.7-6.7-6.7   0.8-1.6-3.3		 		 	  0.0-0.1-0.3
November	moist   wet		0.8-1.6-3.3   6.7-6.7-6.7	none		rare	very brier	0.0-0.1-0.3
December	wet   moist		6.7-6.7-6.7     1.3-2.1-3.8	none	l I	l none	l 	l I
)ecember		1.3-2.1-3.8		none	- <b></b>	l none	<b>-</b>	- <b></b>

Foldahl (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 .	L-R-H	L-R-H		 	 	 	L - R - H 
January	   moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	j I	j I
	wet	4.6-5.4-6.7	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none		none	j	i
	wet	4.9-5.7-6.7	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none	i	none	j	i
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
April	moist		1.3-2.5-4.6	none		none		
	wet		6.7-6.7-6.7					
May	moist		2.0-3.1-5.2	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
	moist		2.6-3.8-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5	none		none		ļ
	moist		3.8-4.9-6.7					
	wet		6.7-6.7-6.7		ļ	!	!	!
August	dry		0.0-0.0-0.7	none	ļ	none	!	!
	moist		5.2-6.7-6.7		!	!	!	!
	wet		6.7-6.7-6.7		!	!	!	!
September			0.0-0.0-0.3	none		none	!	!
	moist		3.8-4.1-6.7		!	!	!	!
	wet		6.7-6.7-6.7					
October	moist		3.3-3.8-6.7			none		
	wet		6.7-6.7-6.7					
November	moist		2.5-3.3-5.6	none		none		
D	wet		6.7-6.7-6.7				!	!
December	moist		3.8-4.1-6.2	none		none		
	wet	3.8-4.1-6.2 	6.7-6.7-6.7		 	l I	] ]	 
		l				I	I	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I24A (continued)

Hamerly (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L - R - H
January	moist		2.5-4.1-5.7	none		none	j	
	wet		6.7-6.7-6.7			!	!	
February	moist		3.3-4.9-6.7	none		none	!	
		3.3-4.9-6.7						
March			2.5-3.8-5.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		0.7-1.3-3.3	none		none		
	wet		6.7-6.7-6.7					
May	moist		1.0-1.5-4.1	none		none		
	wet	1.0-1.5-4.1	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	1.6-2.0-4.9	none		none		
	wet	1.6-2.0-4.9	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.5-3.3-5.4					
	wet	2.5-3.3-5.4	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	3.3-6.7-6.7					
	wet	3.3-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.5-4.6-5.7		[	1	1	
	wet	2.5-4.6-5.7	6.7-6.7-6.7		İ	İ	ĺ	İ
October	moist	0.0-0.0-0.0	2.0-3.9-4.9	none		none	i	
	wet	2.0-3.9-4.9	6.7-6.7-6.7		İ	İ	İ	İ
November	moist	0.0-0.0-0.0	1.6-3.0-4.1	none		none	j	i
	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
December	moist	0.0-0.0-0.0	2.0-3.8-4.9	none	i	none	j	i
	wet	2.0-3.8-4.9	6.7-6.7-6.7		İ	İ	İ	İ
	i	i	i i		i	i	i	i

Foxhome (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
January	moist	0.0-0.0-0.0	4.8-5.4-6.7	none		none		
	wet		6.7-6.7-6.7					
February	moist		5.2-5.7-6.7			none		
	wet		6.7-6.7-6.7					
March	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.3-2.5-4.9			none		ļ
	wet		6.7-6.7-6.7			ļ	!	!
May	moist		2.0-3.0-5.6			none	!	!
			6.7-6.7-6.7			!	!	!
June	_	0.0-0.0-0.0		none		none	!	!
		0.0-0.0-0.5						
			6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
	moist		3.9-5.4-6.7				ļ	ļ
	wet		6.7-6.7-6.7				ļ	ļ
August	dry		0.0-0.0-1.0	none		none		
	moist		5.4-6.7-6.7					!
1 a m t a m h	wet		6.7-6.7-6.7   0.0-0.0-0.3		 			
September			0.0-0.0-0.3   4.1-4.6-6.7		 	none		
	moist   wet		4.1-4.6-6.7   6.7-6.7-6.7		l I	I I	l I	l I
October	wet   moist		6.7-6.7-6.7     3.6-3.9-6.7		l I	l none	l I	l I
CCODEL	moist   wet		3.6-3.9-6.7   6.7-6.7-6.7	none	<del></del>	none	 	
Jovember	wet   moist		0.7-0.7-0.7   2.5-3.3-5.7	none	l I	   none	l I	l I
overmer	moist   wet		2.5-3.3-5.7   6.7-6.7-6.7	none	 	l none	ı	
December	wet   moist		8.7-6.7-6.7   3.9-4.6-6.2	none	! !	   none	l I	! 
,ecember	wet		6.7-6.7-6.7	none	 	l mone	 	
	l wer	3.9-4.0-0.2	0 0 7 - 0 0 7 - 0 0 7		] 	1	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I24A (continued)

Karlsruhe (2 percent of the map unit)

		_						
Month	Moisture   status	Top depth	Bottom depth	Flooding frequency	Flooding   duration	Ponding   frequency	Ponding   duration	Ponding depth
	Status	L-R-H	depth  L-R-H	rrequency	duration	rrequency	duration	depth   L - R - H
			<u> </u>		 	 	 	
January	   moist	 	  2.6-3.3-6.2	none	 	none		 
bandary	wet		6.7-6.7-6.7		 	l none	 	 
February	moist		3.3-4.1-6.7		l 	l none	! 	! 
cordary	wet		6.7-6.7-6.7		! 	110110	i	! 
March	moist		2.6-3.3-5.9			l none	i	i
	wet		6.7-6.7-6.7		! 	İ	i	İ
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none	i	none	i	i
_	wet	1.5-2.0-3.3	6.7-6.7-6.7		İ	į	į	İ
May	moist	0.0-0.0-0.0	1.8-2.5-4.1	none	i	none	j	i
	wet	1.8-2.5-4.1	6.7-6.7-6.7		İ	İ	İ	İ
June	moist	0.0-0.0-0.0	2.5-3.0-4.9	none		none	j	
	wet	2.5-3.0-4.9	6.7-6.7-6.7			1		
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	3.0-3.6-6.7			[		l
	wet	3.0-3.6-6.7	6.7-6.7-6.7			[		
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	4.1-6.7-6.7			[		
	wet	4.1-6.7-6.7	6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		2.6-4.1-6.7					
	wet		6.7-6.7-6.7					
October	moist	•	3.0-4.3-5.7			none		
	wet		6.7-6.7-6.7					
November	moist		2.0-2.5-4.9			none	!	ļ
	wet		6.7-6.7-6.7			ļ.	ļ.	l
December	moist		2.3-3.0-5.6		ļ	none	ļ	ļ
	wet	2.3-3.0-5.6	6.7-6.7-6.7			!	!	l
	l							

Mavie (2 percent of the map unit)

		[			!	İ	I	ļ
Month	Moisture	-	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 -	 .	L - R - H 
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	 	 
	wet	1.6-3.0-4.1	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7				1	
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7				1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet		6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7			1	1	
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7				1	
						_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I24A (continued)

Ulen (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į i	L-R-H	L-R-H		İ	į	į	L - R - H
	İ		İi		İ	İ	İ	İ
January	moist	0.0-0.0-0.0	2.6-3.3-5.9	none		none		
	wet		6.7-6.7-6.7					
February	moist		3.3-4.1-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		2.6-3.3-5.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.5-2.0-3.3	none		none		
	wet		6.7-6.7-6.7					
May	moist		2.0-2.5-4.1	none	ļ	none	!	!
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none	ļ	none	ļ	ļ
	moist		2.5-3.0-4.9		!	!	!	!
_	wet		6.7-6.7-6.7		!	!	!	!
July	dry		0.0-0.0-0.5	none		none	ļ	ļ
	moist		3.0-4.9-6.2					
	wet		6.7-6.7-6.7		!	!	!	!
August	dry		0.0-0.0-0.7	none		none		
	moist		6.7-6.7-6.7				!	ļ
September			0.0-0.0-0.3	none		none		ļ
	moist		2.6-4.9-6.7					!
0 -1 -1	wet		6.7-6.7-6.7					
October	moist		2.3-3.0-5.7   6.7-6.7-6.7	none		none		
November	wet						!	!
November	moist		2.0-2.5-4.9	none		none		ļ
D	wet		6.7-6.7-6.7					
December	moist		2.3-3.0-5.2	none		none		
	wet	∠.3-3.0-5.2	6.7-6.7-6.7		I	!	!	I

I25A Hamar loamy fine sand, 0 to 2 percent slopes

Hamar (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L-R-H
January	moist	0.0-0.0-0.0	  2.0-2.5-4.9	none	 	none	i 	i 
_	wet	2.0-2.5-4.9	6.7-6.7-6.7		İ	İ	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	j	none	j	j
	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				ļ	
May	moist		0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ		
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				ļ	
July	moist   wet		1.6-3.3-4.9	none		none		
3	wet   moist		6.7-6.7-6.7   2.5-4.9-5.7		 		ļ	
August	moist   wet		2.5-4.9-5.7   6.7-6.7-6.7	none		none		
September	wet   moist		1.3-3.0-4.9	none	<u></u>	l none		! !
pepcember	wet		6.7-6.7-6.7	none	 	l none	 	i
October	moist		11.0-2.1-4.1	none	 	   rare	  verv brief	  0.0-0.3-0.5
CCCCDCI	wet		6.7-6.7-6.7	110110		1410		• • • • • • • • • • • • • • • • • • •
November	moist		0.8-1.6-3.3	none	i	none	i	i
	wet		6.7-6.7-6.7		İ		i	i
December	moist		1.3-2.1-4.1	none	i	none	j	i
	wet	1.3-2.1-4.1	6.7-6.7-6.7		İ	İ	i	İ
	wet				 	i 	i 	i I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I25A (continued)

Garborg (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	Gepen	rrequency		II equency		L-R-I
	i				 	İ	İ	İ
						ļ.	ļ.	!
January	moist		2.6-3.3-5.9	none		none	!	ļ
	wet		6.7-6.7-6.7				!	!
February	moist		3.3-4.1-6.7	none		none	!	!
	wet		6.7-6.7-6.7					!
March	moist		2.6-3.3-5.7	none		none		
			6.7-6.7-6.7					!
April	moist		1.1-1.5-3.3	none		none		
			6.7-6.7-6.7					!
May	moist		1.5-1.8-4.1	none		none		
_			6.7-6.7-6.7					!
June			0.0-0.0-0.3	none		none		
	moist		2.0-2.5-4.9					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5	none		none		ļ
	moist		2.6-4.9-6.2					
	wet		6.7-6.7-6.7					
August			0.0-0.0-0.7	none		none		ļ
g			6.7-6.7-6.7		 			
September	dry moist		0.0-0.0-0.3	none		none		
			2.6-4.9-6.7		 			
October	wet   moist		6.7-6.7-6.7   2.3-3.0-5.7		l i		 	
October			2.3-3.0-5.7   6.7-6.7-6.7	none	 	none		
November	wet   moist		6.7-6.7-6.7   2.0-2.5-4.9	none	l i	l none	I I	l I
November	moist   wet		2.0-2.5-4.9   6.7-6.7-6.7	none	<b></b>	none		
December	wet   moist				 		1	 
Jecember			2.3-3.0-5.2	none	<b></b>	none		
	wet	2.3-3.0-5.2	6.7-6.7-6.7			!	1	!

Rosewood (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 _	 .	L - R - H 
January	   moist	0.0-0.0-0.0	  2.0-2.5-4.9	none	 	none		 
	wet	2.0-2.5-4.9	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		1.6-2.1-4.1	none		none		
			6.7-6.7-6.7		!		!	
April	moist		0.0-0.5-2.5	none	!	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
July	wet   moist	•	6.7-6.7-6.7   1.6-3.3-4.9	none	 			 
July			1.6-3.3-4.9   6.7-6.7-6.7	none		none		 
August	wet   moist		2.5-4.9-5.7	none	 	l none		l 
augusc	wet		6.7-6.7-6.7	none	 	none		 
September	moist		11.3-3.0-4.9	none	! !	none	i	! 
oop common			6.7-6.7-6.7		İ		i	i I
October	moist		1.0-2.1-4.1	none	i	rare	very brief	  0.0-0.3-0.5
	wet		6.7-6.7-6.7		İ		-	
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	i	none	i	i
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	į	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	i	none	j	
	wet	1.3-2.1-4.1	6.7-6.7-6.7			1	1	l
	1	l	ii			_		l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I25A (continued)

Venlo (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H   	L-R-H		 			L - R - H 
<b>-</b>								
January	moist wet		0.8-1.6-3.0   6.7-6.7-6.7	none		occasional	long	0.0-0.5-1.0
February	wec   moist		2.0-3.0-3.6	none	l I	  occasional	llong	  0.0-0.5-1.0
rebruary	wet		6.7-6.7-6.7	none	 	l	l 10119	0.0-0.5-1.\
March	moist		0.0-0.5-2.0	none	¦	loccasional	llong	  0.0-0.5-1.0
	wet		6.7-6.7-6.7		i		5	 
April	moist		0.0-0.0-1.0	none	i	frequent	long	0.0-0.5-1.0
_	wet	0.0-0.0-1.0	6.7-6.7-6.7		i	i -	i	i
May	moist	0.0-0.0-0.0	0.0-0.5-2.0	none	j	frequent	long	0.0-0.5-1.0
	wet	0.0-0.5-2.0	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.3-1.3-2.6	none		occasional	brief	0.0-0.5-1.0
	wet	0.3-1.3-2.6	6.7-6.7-6.7					
July	moist		1.0-2.1-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
August	moist		2.0-3.0-3.8	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	ļ		!
September	moist		1.0-2.1-3.3	none	ļ	rare	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist wet		0.7-1.6-2.6	none		occasional	brief	0.0-0.3-0.5
November	wet   moist		6.7-6.7-6.7   0.3-1.3-2.0	2020	l I	  occasional	   long	  0.0-0.5-1.0
November	moist   wet		0.3-1.3-2.0   6.7-6.7-6.7	none		loccasional	l rong	10.0-0.5-1.0
December	wec   moist		0.7-0.7-0.7   0.7-1.6-2.5	none		loccasional	   long	  0.0-0.5-1.0
>ecember	wet		6.7-1.0-2.3   6.7-6.7-6.7	110116	1	l	l Tong	0.0-0.5-1.(

Flaming (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H		İ	İ	İ	L - R - H
	İ		İ					
	ĺ		İ			İ	ĺ	ĺ
January	moist	0.0-0.0-0.0	4.6-5.4-6.7	none		none		
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none		none		
	wet	5.2-6.2-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none		
	wet	2.1-2.5-6.7	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.9-6.7					
	wet	4.1-4.9-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					l
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7					l
	I					l	l	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I25A (continued)

Hangaard (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	 	none	i 	 
-	wet	2.0-3.0-4.9	6.7-6.7-6.7		İ	İ	į	İ
ebruary	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	i	none	j	i
	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June	moist		1.0-1.6-2.5	none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7		!	!	!	
July	moist		1.6-2.5-4.9	none	ļ	none		
			6.7-6.7-6.7			ļ		
August	moist		2.5-3.3-5.7	none		none		
	wet		6.7-6.7-6.7			ļ	ļ	
September	moist wet		1.3-2.5-4.9   6.7-6.7-6.7	none		none		
October	wet   moist		6.7-6.7-6.7     1.0-2.1-4.1	none	l i	none	 	l i
october			1.0-2.1-4.1   6.7-6.7-6.7	none	 	i none		 
November	moist		0.7-0.7-0.7   0.8-1.6-3.3	none	! !	none		l 
10 veliber	wet		6.7-6.7-6.7	none	 	l none		 
December	moist		1.6-2.1-4.1	none	! 	l none		! 
		1.6-2.1-4.1			! 			! 

Kratka (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	 	
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	i	į	İ
ebruary	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	j	none	j	
	wet	2.5-3.3-4.9	6.7-6.7-6.7		ĺ	İ		İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
pril	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
lay	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
une	moist		0.8-1.6-4.1	none	ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7			ļ		
Tuly	moist		1.6-3.3-4.9	none	!	none	ļ	
			6.7-6.7-6.7			!	!	
lugust	moist		2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7				!	
eptember			1.6-3.3-4.9	none		none		
			6.7-6.7-6.7   1.3-2.5-4.1					
ctober	moist   wet		1.3-2.5-4.1   6.7-6.7-6.7	none		rare	very brief	0 • 0 - 0 • 1 - 0 • ·
ovember	wet   moist		0.8-1.6-3.3	none	l I	   rare	  very brief	   0
ovember	wet	•	0.8-1.6-3.3   6.7-6.7-6.7	none	 	rare	very prier	0 • 0 - 0 • 1 - 0 • ·
ecember	wet   moist		1.3-2.1-3.8	none	! !	l none		
ecemper	wet		1.3-2.1-3.6   6.7-6.7-6.7	110116	 	I HOHE	 	 
	l wer	± • 5 - 2 • 1 - 5 • 6	0.7-0.7-0.7   		 			
	I		I		I	-	1	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I26A Hamerly loam, 0 to 2 percent slopes

Hamerly (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H 	L - R - H   			 _	 	L - R - H 
January	moist	0.0-0.0-0.0	  2.5-4.1-5.7	none	 	none	 	 
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none		
	wet	3.3-4.9-6.7	6.7-6.7-6.7					
March	moist		2.5-3.8-5.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		0.7-1.3-3.3	none		none		
	wet		6.7-6.7-6.7					
May	moist		1.0-1.5-4.1	none		none		
	wet		6.7-6.7-6.7			ļ		
June	moist		1.6-2.0-4.9	none		none		ļ
	wet		6.7-6.7-6.7			ļ	!	!
July	dry		0.0-0.0-0.3	none		none	!	!
	moist		2.5-3.3-5.4			ļ	!	!
	wet		6.7-6.7-6.7			ļ	!	!
August	dry		0.0-0.0-0.5	none		none	ļ	!
	moist		3.3-6.7-6.7					
	wet		6.7-6.7-6.7			ļ		
September	dry		0.0-0.0-0.3	none		none		
	moist		2.5-4.6-5.7			!	!	ļ
0 1 1	wet		6.7-6.7-6.7					!
October	moist		2.0-3.9-4.9	none		none		ļ
	wet		6.7-6.7-6.7			!	!	ļ
November	moist		1.6-3.0-4.1	none		none		ļ
Da mambass	wet		6.7-6.7-6.7		l I		<u> </u>	
December	moist wet	0.0-0.0-0.0  2.0-3.8-4.9	2.0-3.8-4.9	none		none		ļ

Vallers (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į I	L-R-H	L-R-H		j 	İ	į I	   L-к-н 
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none	 	none		i I
0 411441 7	wet	1.6-3.0-4.1			i		i	i
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	j	none	i	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	j	İ	į
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none	i	none		i
	wet	1.3-2.1-3.3						
April	moist	0.0-0.0-0.0		none	ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ			!
May	moist		0.3-0.8-3.3	none	!	occasional	brief	0.0-0.3-0.5
<b>T</b>	wet	0.3-0.8-3.3				  occasional	 	
June	moist   wet	0.0-0.0-0.0   0.7-1.3-4.1		none		occasional	very brier	0.0-0.3-0.5
July	wet   moist	0.7-1.3-4.1		none	¦	l none		! !
buly	wet		6.7-6.7-6.7	none		none		 
August	moist		2.5-3.8-5.7	none	i	none	i	i
	wet	2.5-3.8-5.7			İ	i	i	i
September	moist	0.0-0.0-0.0	2.0-3.3-4.9	none	j	rare	very brief	0.0-0.3-0.5
	wet	2.0-3.3-4.9	6.7-6.7-6.7		İ	İ	İ	ĺ
October	moist	0.0-0.0-0.0	1.3-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ	ļ		!
December	moist		1.3-2.1-3.8	none	!	none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7					!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I26A (continued)

Foxhome (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
January	moist		4.8-5.4-6.7	none		none		
	wet		6.7-6.7-6.7		ļ	!	!	!
February	moist		5.2-5.7-6.7	none	ļ	none	!	!
	wet		6.7-6.7-6.7		!	!	!	!
March	moist		3.3-4.6-6.7	none	ļ	none	ļ	ļ
	wet		6.7-6.7-6.7		!	!	!	!
April	moist		1.3-2.5-4.9	none		none	ļ	ļ
	wet		6.7-6.7-6.7					
May	moist		2.0-3.0-5.6	none		none		ļ
_	wet		6.7-6.7-6.7				!	ļ
June	dry moist		0.0-0.0-0.5   2.6-3.6-6.2	none		none		ļ
	wet		2.0-3.0-6.2     6.7-6.7-6.7		l I	l I	 	l I
July	wet   dry		10.0-0.0-0.7	none	l I	l I none	 	l I
ouly	dry   moist		3.9-5.4-6.7	none	 	l none		 
	wet		6.7-6.7-6.7		 	<u> </u>	 	¦
August	dry		0.0-0.0-1.0	none	! !	l none	! !	! !
nagabe	moist		5.4-6.7-6.7	110110	 	110110	! 	i
	wet		6.7-6.7-6.7		i I	i	i	i
September	dry		0.0-0.0-0.3	none	i	l none	i	i
	moist		4.1-4.6-6.7		İ		i	i
	wet		6.7-6.7-6.7		İ	i	i	i
October	moist	0.0-0.0-0.0	3.6-3.9-6.7	none	i	none	i	i
	wet	3.6-3.9-6.7	6.7-6.7-6.7		İ	İ	j	İ
November	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	i	none	j	i
	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none	j	i
	wet	3.9-4.6-6.2	6.7-6.7-6.7					
		l	į į		I	I	I	I

Grimstad (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		 	 	 	L - R - H 
January	   moist	  0.0-0.0-0.0	  2.5-3.8-5.7	none	 	none	 	 
	wet		6.7-6.7-6.7					
February	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7		!	!	!	ļ
March	moist		2.5-3.0-5.7	none		none	!	
	wet		6.7-6.7-6.7		!	!	!	
April	moist		0.8-1.5-3.3	none		none	ļ	
_	wet		6.7-6.7-6.7					
May	moist		1.1-1.8-4.1	none		none		
_			6.7-6.7-6.7			!		
June	moist		1.6-3.3-4.9			none		
T 7			6.7-6.7-6.7   0.0-0.0-0.3					
July	dry   moist		0.0-0.0-0.3   2.5-5.7-6.2	none		none		
	wet		2.3-3.7-6.2     6.7-6.7-6.7		l I	l i	 	l I
August	wet   dry		10.0-0.0-0.5		l I	l none	! !	l I
August	moist		6.7-6.7-6.7	none	 i	l none		 
September			10.0-0.0-0.3	none	! !	l none	¦ 	 
	moist		12.5-3.8-6.7		! 		i	i İ
	wet		6.7-6.7-6.7		i i	i	i	i I
October	moist		2.0-3.0-5.6	none	i	none	i	i
	wet	2.0-3.0-5.6	6.7-6.7-6.7		İ	i	i	İ
November	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none	i	
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	i	İ	İ
December	moist	0.0-0.0-0.0	2.0-3.3-5.4	none	i	none	j	i
	wet	2.0-3.3-5.4	6.7-6.7-6.7		İ	İ	İ	İ
	l		li					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I26A (continued)

Hamerly, very cobbly (3 percent of the map unit)

Month	  Moisture	l Top	Bottom	Flooding	   Flooding	   Ponding	   Ponding	l   Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L - R - H
	i		İi			i	i	İ
January	   moist	 	  2.5-4.1-5.7	none		   none	 	 
anuary	wet		2.3- <del>4</del> .1-3.7   6.7-6.7-6.7		 i	l none	 	 
ebruary	moist		3.3-4.9-6.7		 	l none	l 	 
cordary	wet		6.7-6.7-6.7			1	l I	! 
March	moist		2.5-3.8-5.7			l none	! 	! 
			6.7-6.7-6.7				i	i I
April	moist		0.7-1.3-3.3			l none	i	i
-	wet	0.7-1.3-3.3	6.7-6.7-6.7			i	İ	İ
May	moist	0.0-0.0-0.0	1.0-1.5-4.1	none		none	i	i
	wet	1.0-1.5-4.1	6.7-6.7-6.7			İ	İ	İ
June	moist	0.0-0.0-0.0	1.6-2.0-4.9	none		none	i	i
	wet	1.6-2.0-4.9	6.7-6.7-6.7			ĺ	ĺ	ĺ
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.5-3.3-5.4					
	wet	2.5-3.3-5.4	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	3.3-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		2.5-4.6-5.7					
	wet		6.7-6.7-6.7					
October	moist		2.0-3.9-4.9			none		
	wet		6.7-6.7-6.7					
November	moist		1.6-3.0-4.1			none		
	wet		6.7-6.7-6.7			!	!	l
December	moist	•	2.0-3.8-4.9	none		none	ļ	ļ
	wet	2.0-3.8-4.9	6.7-6.7-6.7			!	!	l

Strathcona (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
						ļ		 
January	moist		1.6-3.0-4.1	none	ļ	none	ļ	!
			6.7-6.7-6.7			ļ		
February	moist		2.5-3.3-4.9			none		ļ
	wet		6.7-6.7-6.7			ļ		
March			1.6-2.1-4.1			none		ļ
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3			occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet	•	6.7-6.7-6.7					
July	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7			ļ		
August			2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			none		ļ
			6.7-6.7-6.7			ļ		
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7			ļ		
November	moist		0.8-1.6-3.3			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		ļ	1		
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	l							

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I26A (continued)

Roliss, depressional (1 percent of the map unit)

Manth			Datte	 	=====================================			   Bamaima
Month	Moisture		Bottom	Flooding	Flooding   duration	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	l	ь - к - н	ь-к-н		l I	1	 	ь - к - н
					 		l	
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.0	l none	l 	  occasional	l l long	  0.0-0.5-1.0
2	wet		6.7-6.7-6.7		 		5 	
February	moist		1.6-2.5-3.3			occasional	long	0.0-0.5-1.0
_	wet	1.6-2.5-3.3	6.7-6.7-6.7		<u> </u> 	i	i	i
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7			[		
June	moist		0.2-0.8-2.5			occasional	brief	0.0-0.5-1.0
	wet	0.2-0.8-2.5	6.7-6.7-6.7					
July	moist		0.8-1.6-3.0			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
August	moist		1.6-2.1-3.3			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
September	moist		0.8-1.6-3.0			rare	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					!
October	moist		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				<u> </u>	
November	moist		0.2-0.5-1.6			occasional	long	0.0-0.5-1.0
_	wet		6.7-6.7-6.7				! _	
December	moist		0.3-0.8-2.0			occasional	long	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7			!	!	!
	l				l			

I27A Hamre muck, 0 to 1 percent slopes  $\,$ 

Hamre (80 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 	 _	 	L-R-H
January	   moist		  0.8-1.6-3.3	none	 	occasional	   long	  0.0-0.5-1.0
	wet		6.7-6.7-6.7					
February	moist		1.6-2.5-4.1	none		occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7		ļ		ļ	
March	moist		0.0-0.0-2.5		ļ	occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7				! _	
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7				1	
May	moist   wet		0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
June	wet   moist		6.7-6.7-6.7   0.0-0.5-1.6		 	   frequent	   brief	  0.0-0.5-1.0
oune	wet		6.7-6.7-6.7		 	IIequenc	l prier	0 • 0 - 0 • 5 - <u>1</u> • 0
July	moist		0.2-0.8-2.5		! !	   rare	lvery brief	  0.0-0.3-0.5
oury	wet		6.7-6.7-6.7	110110	! 	1410		• • • • • • • • • • • • • • • • • • •
August	moist		0.8-1.6-3.3	none	i	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		i			
September	moist		0.5-1.3-3.0		i	occasional	brief	0.0-0.3-0.5
	wet	0.5-1.3-3.0	6.7-6.7-6.7		İ	İ	İ	İ
October	moist	0.0-0.0-0.0	0.3-0.8-2.5	none	i	occasional	brief	0.0-0.5-1.0
	wet	0.3-0.8-2.5	6.7-6.7-6.7		j	İ	İ	İ
November	moist	0.0-0.0-0.0	0.0-0.3-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.3-1.6	6.7-6.7-6.7					
December	moist		0.5-1.3-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I27A (continued)

Northwood (5 percent of the map unit)

Month	  Moisture	l Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L - R - H
	i	İ	İ		i	.i	.i	i
T	   moist		  0.8-1.6-3.3	none		  occasional	l long	  0.0-0.5-1.
January	moist   wet		0.8-1.6-3.3  6.7-6.7-6.7			loccasionai	l rong	10.0-0.5-1.
February	wet   moist		1.6-2.5-4.1		l I	  occasional	   long	  0.0-0.5-1.
rebruary	wet		6.7-6.7-6.7		 	Occasional	i Iong	10.0-0.5-1.
March	wet   moist		0.0-0.0-2.5		 	  occasional	   long	  0.0-0.5-1.
1101 011	wet		6.7-6.7-6.7		! I		l	0.0 0.5 1.
April	moist		0.0-0.0-0.8			frequent	long	  0.0-0.5-1.
	wet		6.7-6.7-6.7		i		5	i
May	moist		0.0-0.0-1.3		i	frequent	long	0.0-0.5-1.
_	wet	0.0-0.0-1.3	6.7-6.7-6.7		į	į -	į	İ
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none	j	frequent	brief	0.0-0.5-1.
	wet	0.0-0.5-1.6	6.7-6.7-6.7		ĺ	İ	Ì	ĺ
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none	i	rare	very brief	0.0-0.3-0.
	wet	0.2-0.8-2.5	6.7-6.7-6.7					l
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist		0.5-1.3-3.0			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
October	moist		0.3-0.8-2.5			occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
November	moist		0.0-0.3-1.6		ļ	occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7			[		
December	moist		0.5-1.3-2.5	none	ļ	occasional	long	0.0-0.5-1.
	wet	0.5-1.3-2.5	6.7-6.7-6.7		!	ļ.	!	!

## Roliss (5 percent of the map unit)

	I	ı	1		I	I	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		
Uanuary	wet		1.0-3.0-4.1   6.7-6.7-6.7		 	l none		 
February	moist		2.5-3.3-4.9		 	l none		 
r cor dar y	wet		6.7-6.7-6.7		! I	1		! !
March	moist		11.3-2.1-3.3			l none	i	! 
	wet		6.7-6.7-6.7		i		i	i
April	moist		0.0-0.5-2.5		i	occasional	brief	0.0-0.3-0.
-	wet		6.7-6.7-6.7		i			
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.3-0.8-3.3	6.7-6.7-6.7		į	i	İ	İ
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.7-1.3-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7		[	1		
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7		[			
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		[			
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		ļ	<u> </u>		
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7		ļ	ļ	!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I27A (continued)

Smiley (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			1	1	L-R-H
						<u> </u>	l	
January	moist		1.6-3.0-4.1	none		none		
			6.7-6.7-6.7					
February	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7					
March	moist		1.3-2.1-3.3			none		
	wet		6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.3-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7			[	[	
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7			[		
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
	wet	2.0-3.3-4.9	6.7-6.7-6.7			1	1	
October	moist	0.0-0.0-0.0	1.3-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	1.3-1.6-4.1	6.7-6.7-6.7			I		
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7			I	1	
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7			I	I	
	1	İ	ı i		I	I	İ	I

Cathro (3 percent of the map unit)

	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
I	status	depth	depth	frequency	duration	frequency	duration	depth
ļ	ļ	L - R - H	L-R-H		!	!		L-R-H
						_		
January	moist	0.0-0.0-0.0	  0.5-1.3-3.3	none	! 	  occasional	l long	  0.0-0.3-0.5
į	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	j	į	İ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	i	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
I	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April   moist	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
I	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
I			6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.0
ļ			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
ļ			6.7-6.7-6.7					
August			0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
l			6.7-6.7-6.7					
September			0.3-1.1-3.0			rare	brief	0.0-0.3-0.5
ļ			6.7-6.7-6.7					
October			0.2-0.5-2.5			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7				!	
November			0.0-0.3-1.6			occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7				!	
December			0.5-0.8-2.5		!	occasional	long	0.0-0.3-0.5
ļ	wet	0.5-0.8-2.5	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I27A (continued)

Kratka (2 percent of the map unit)

Month	  Moisture   status 	Top depth L-R-H	Bottom depth L - R - H	Flooding frequency	Flooding duration	Ponding frequency	Ponding duration	Ponding depth L - R - H
January	moist		  1.6-3.0-4.1  6.7-6.7-6.7			none	 	 
February	moist	0.0-0.0-0.0	2.5-3.3-4.9			none		
March	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   1.6-2.1-4.1   6.7-6.7-6.7			none none	 	 
April	wet   moist   wet	0.0-0.0-0.0	0.7-6.7-6.7  0.0-0.5-2.5  6.7-6.7-6.7	none		  occasional 	   brief 	  0.0-0.3-0.5 
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
June	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   0.8-1.6-4.1   6.7-6.7-6.7	none		   rare	  very brief	0.0-0.1-0.3
July	wet   moist   wet	0.0-0.0-0.0	1.6-3.3-4.9     6.7-6.7-6.7	none		none	 	 
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		 
September	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   1.6-3.3-4.9   6.7-6.7-6.7	none		none	 	 
October	wet   moist   wet	0.0-0.0-0.0	1.3-2.5-4.1  6.7-6.7-6.7	none		   rare	  very brief	0.0-0.1-0.3
November	moist	0.0-0.0-0.0	0.7-0.7-0.7  0.8-1.6-3.3  6.7-6.7-6.7	none		rare	very brief	0.0-0.1-0.3
December	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   1.3-2.1-3.8   6.7-6.7-6.7			none	 	   
						i	İ	İ

\*

I32A Hilaire fine sandy loam, 0 to 3 percent slopes

Hilaire (75 percent of the map unit)

			I .					
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H		 		 	L - R - H 
January	moist	 	4.6-5.4-6.7	none	ļ	none	i	 
oanuar y	wet		6.7-6.7-6.7	l	 	l none	 	 
February	moist		4.9-5.7-6.7	none	! !	none	 	 
coruary	wet		6.7-6.7-6.7		! 	110110	<u> </u>	! 
March			3.3-4.6-6.7	none	i	l none	¦	i
	wet		6.7-6.7-6.7	110110	i i		i	İ
April	moist		1.6-2.5-4.6	none	i	none	i	i
-	wet		6.7-6.7-6.7		İ	i	i	İ
May	moist	0.0-0.0-0.0	2.3-3.0-5.2	none		none	i	
_	wet	2.3-3.0-5.2	6.7-6.7-6.7		İ	İ	į	İ
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none	i	none	j	i
	moist	0.0-0.0-0.3	2.8-3.8-6.2		İ	İ	İ	İ
	wet	2.8-3.8-6.2	6.7-6.7-6.7		İ	İ	ĺ	ĺ
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist		3.8-4.6-6.7					
	wet	3.8-4.6-6.7	6.7-6.7-6.7					
August	dry		0.0-0.0-0.7	none		none		
			5.2-6.7-6.7					
			6.7-6.7-6.7					
September			0.0-0.0-0.3	none		none		
	!		3.8-4.1-6.7					
	wet		6.7-6.7-6.7		!	!	!	
October			3.3-3.8-6.7	none		none	!	
_	wet		6.7-6.7-6.7			ļ	!	ļ
November	moist		2.5-3.3-4.9	none		none	!	!
	wet		6.7-6.7-6.7					
December	!		3.8-4.1-5.7	none	ļ	none	ļ	!
	wet	3.8-4.1-5.7	6.7-6.7-6.7				!	
	l							

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I32A (continued)

Espelie (12 percent of the map unit)

Month	  Moisture	1	   Bottom	Flooding	   Flooding	Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 .	L - R - H 	L - R - H 	 	 	  -	 	L - R - H 
January	moist	 	11.6-2.1-4.1	none	j 	none	i	j 
bandary	wet		6.7-6.7-6.7			l none		
February	moist		2.0-2.6-4.9			l none		 
reprudry	wet		6.7-6.7-6.7	•		110110	<b>!</b>	¦
March	moist		11.5-2.3-4.9		i	l none	i	i
	1		6.7-6.7-6.7		i		i	i
April	moist		0.0-0.5-2.5	•		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		i			i
May	moist		0.5-0.8-3.3			occasional	brief	0.0-0.3-0.5
-	wet	0.5-0.8-3.3	6.7-6.7-6.7	İ	i	İ	i	İ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none	i	occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7		İ	i	į -	İ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none	i	none	j	j
	wet	1.6-3.0-4.9	6.7-6.7-6.7	İ	İ	İ	İ	İ
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none	j	none	j	j
	wet	2.5-3.8-5.7	6.7-6.7-6.7				1	
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		rare	very brief	0.0-0.1-0.3
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
December	moist		1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7					
	.					_	.	

Huot (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L-R-H	L - R - H   		 	İ İ	İ I	L - R - H 
January	   moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	i 	i 
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none		none		
	wet	4.9-5.7-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
April	moist		1.6-2.5-4.6			none		
	wet		6.7-6.7-6.7					
May	moist		2.3-3.0-5.2	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist		2.8-3.8-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5			none		
	moist		3.8-4.6-6.7			!	!	
	wet		6.7-6.7-6.7			!	!	
August	dry		0.0-0.0-0.7	none		none	!	
	moist		5.2-6.7-6.7			!	!	
	wet		6.7-6.7-6.7			!	!	
September			0.0-0.0-0.5			none	!	
	moist		3.8-4.1-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-3.8-6.7	none		none		
	wet		6.7-6.7-6.7					l
November	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7					l
December	moist		3.8-4.1-5.7	none		none		
	wet	3.8-4.1-5.7	6.7-6.7-6.7		 	1	1	 
	l	l	l			l		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I32A (continued)

Flaming (2 percent of the map unit)

Month   1	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H			ļ	ļ	L - R - H
	.							
January	   moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	 	 
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none		none		
	wet	5.2-6.2-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none		
	wet	2.1-2.5-6.7	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.9-6.7					
	wet	4.1-4.9-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7				l	l
	1	l	1 1		l	I	I	I

Foxlake (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 			L - R - H
					<del></del>			
January			0.8-2.1-4.1   6.7-6.7-6.7	none		none		
February			6.7-6.7-6.7   1.6-2.5-4.9		l i			 
rebruary			1.6-2.5-4.9   6.7-6.7-6.7	none	 	none		
March			0.7-0.7-0.7   0.3-1.3-3.3	none	l I	l none	 	 
March			6.7-6.7-6.7	none	 	Hone		 
April			0.7-0.7-0.7   0.0-0.0-1.6	none	l 	loccasional	   brief	  0.0-0.3-0.!
APILI			6.7-6.7-6.7	none	 	l	Dilei	0 • 0 = 0 • 5 = 0 • ·
May			0.0-0.5-2.5	none	! 	loccasional	brief	  0.0-0.3-0.!
2			6.7-6.7-6.7		i I		22202	
June			0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7				-	İ
July	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	i	rare	very brief	0.0-0.2-0.
_	wet	1.3-2.1-4.1	6.7-6.7-6.7		İ	i	į -	į
August	moist	0.0-0.0-0.0	1.6-3.0-4.9	none	i	rare	very brief	0.0-0.2-0.
	wet	1.6-3.0-4.9	6.7-6.7-6.7		İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.2-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7					I
October	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		occasional	very brief	0.0-0.2-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7					[
November	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7					
December			0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I32A (continued)

Wheatville (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   			 	 	L - R - I 
January	moist	0.0-0.0-0.0	  2.5-3.8-5.7	none	 	none	i I	i I
	wet	2.5-3.8-5.7	6.7-6.7-6.7					l
ebruary	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
<b>farch</b>	moist	0.0-0.0-0.0	2.5-3.0-5.7	none		none		
			6.7-6.7-6.7					
pril			0.7-1.3-3.3	none		none		
			6.7-6.7-6.7					
lay			1.0-1.6-4.1	none		none	!	!
			6.7-6.7-6.7				!	!
Tune			1.6-2.5-4.9	none		none	!	!
			6.7-6.7-6.7					!
July			2.5-3.8-6.2	none		none		
			6.7-6.7-6.7					ļ
ugust			0.0-0.0-0.3   3.8-6.7-6.7	none		none		
			3.8-6.7-6.7   6.7-6.7-6.7			l i	 	! !
September			2.5-3.8-6.2	none	l 	none	l I	l I
eptember			6.7-6.7-6.7	none	 	l none	 	 
ctober			2.0-3.0-5.6	none	 	l none	! !	 
CCODCI			6.7-6.7-6.7	110110		110110	i	i
Tovember	moist		11.6-2.5-4.9	none		none	i	i
			6.7-6.7-6.7				i	i
December			2.0-3.3-5.4	none		none	i	i
	wet		6.7-6.7-6.7				i	i

Thiefriver (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			ļ		L - R - H
					 	-		l
January	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none	i	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none		
	wet	2.0-2.6-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none		none		
	wet	1.5-2.3-4.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
July			1.6-3.0-4.9	none		none		
			6.7-6.7-6.7					
August			2.5-3.8-5.7	none		none		
			6.7-6.7-6.7					
September			1.6-3.3-4.9	none	ļ	rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7					
October			1.3-2.5-4.1	none	ļ	rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7		!	!		
November			0.8-1.6-3.3	none	ļ	rare	very brief	0.0-0.1-0.3
_	wet		6.7-6.7-6.7				ļ	
December			1.3-2.0-3.9	none	ļ	none	!	ļ
	wet	1.3-2.0-3.9	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I32A (continued)

Wyandotte (1 percent of the map unit)

Month	  Moisture	   Top	Bottom	Flooding	   Flooding	Ponding	   Ponding	Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	L-R-H			IIcquency		L-R-H
	i	i			İ	i	i	i
	i	i				i	i	
January	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none	i	i
_	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none	i	none	j	i
	wet	2.0-2.6-4.9	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	1.5-2.3-4.1	none		none	j	i
	wet	1.5-2.3-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist		0.8-1.6-4.1			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7			ļ		
September			1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7			!	!	!
November	moist		0.8-1.6-3.3			none	!	!
	wet		6.7-6.7-6.7			ļ	!	!
December	moist		1.3-2.0-3.9	none		none	!	!
	wet	1.3-2.0-3.9	6.7-6.7-6.7			ļ	ļ.	!

\*

I34A Huot fine sandy loam, 0 to 3 percent slopes

Huot (75 percent of the map unit)

Month	Moisture status	Top depth L-R-H	Bottom depth L-R-H	Flooding frequency	Flooding   duration 	Ponding   frequency 	Ponding   duration 	Ponding depth L-R-H
January	moist		  4.6-5.4-6.7   6.7-6.7-6.7	none		none		
February	wet moist wet	0.0-0.0-0.0	6.7-6.7   4.9-5.7-6.7   6.7-6.7-6.7	none	   	none	 	   
March	moist wet	0.0-0.0-0.0	3.3-4.6-6.7 6.7-6.7-6.7	none	i i	none	i i	 
April	moist wet		1.6-2.5-4.6   6.7-6.7-6.7		 	none	j I	 
May	moist wet	2.3-3.0-5.2	2.3-3.0-5.2   6.7-6.7-6.7		 	none	 	 
June	dry moist wet	0.0-0.0-0.3	0.0-0.0-0.3   2.8-3.8-6.2   6.7-6.7-6.7	none	 	none	 	 
July	dry moist	0.0-0.0-0.0	0.0-0.0-0.5 3.8-4.6-6.7	none	   	none	   	   
August	wet dry moist	0.0-0.0-0.0	6.7-6.7-6.7   0.0-0.0-0.7   5.2-6.7-6.7	none	   	none	   	   
September	wet dry moist	5.2-6.7-6.7  0.0-0.0-0.0	6.7-6.7-6.7   0.0-0.0-0.5   3.8-4.1-6.7	none	 	none	 	 
October	wet moist	3.8-4.1-6.7  0.0-0.0-0.0	6.7-6.7-6.7  3.3-3.8-6.7	none	 	none	 	 
November	wet moist wet	0.0-0.0-0.0	6.7-6.7-6.7   2.5-3.3-4.9   6.7-6.7-6.7	none	 	none	 	 
December	moist		3.8-4.1-5.7	none	 	none	 	 

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I34A (continued)

Thiefriver (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		_   L - R - н	_   L - R - н   		j I		į i	L-R-Н
January	moist	0.0-0.0-0.0	  1.6-2.1-4.1	none	 	none		 
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
February	moist		2.0-2.6-4.9	none		none		
	wet		6.7-6.7-6.7					
March	moist wet		1.5-2.3-4.9   6.7-6.7-6.7	none		none		
April	moist		0.0-0.5-2.5	none		occasional	brief	  0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7				1	
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	i	occasional	brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9	none		none		
			6.7-6.7-6.7			!	ļ	
August	moist		2.5-3.8-5.7	none		none	ļ	
	wet		6.7-6.7-6.7					
September	moist		1.6-3.3-4.9	none		rare	very brief	0.0-0.1-0.3
October	wet		6.7-6.7-6.7   1.3-2.5-4.1				 	
october	moist wet		1.3-2.5-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.1-0.3
November	wet   moist		0.7-6.7-6.7   0.8-1.6-3.3	none	 	   rare	lucry brief	  0.0-0.1-0.3
Ovember	wet		6.7-6.7-6.7	none	 i	Tare	very prier	0.0-0.1-0.3 
December	wet   moist		1.3-2.0-3.9	none	<u> </u>	l none		! !
CCEMPET	wet		6.7-6.7-6.7	110116		1 110116		 

Hilaire (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H 	L - R - H   				 	L - R - H 
January	moist		 	none		none	   	   
o arruar y	wet		6.7-6.7-6.7	none		I		i
February	moist		4.9-5.7-6.7	none		none	i	i
_	wet	4.9-5.7-6.7	6.7-6.7-6.7			İ	į	İ
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		i
	wet		6.7-6.7-6.7					I
April	moist		1.6-2.5-4.6	none		none		
			6.7-6.7-6.7			!	!	!
May	moist		2.3-3.0-5.2	none		none		
une	wet   dry		6.7-6.7-6.7   0.0-0.0-0.3					
June	dry   moist		0.0-0.0-0.3   2.8-3.8-6.2	none		none		
	wet		2.0-3.8-0.2   6.7-6.7-6.7				 	 
July	dry		0.0-0.0-0.5	none		none	i	i
2	moist		3.8-4.6-6.7				i	i
	wet	3.8-4.6-6.7	6.7-6.7-6.7			İ	į	į
August	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none	j	j
	moist		5.2-6.7-6.7			1		1
	wet		6.7-6.7-6.7					I
September			0.0-0.0-0.3	none		none		
	moist		3.8-4.1-6.7			!	!	!
			6.7-6.7-6.7			!	!	!
October	moist   wet		3.3-3.8-6.7	none		none		
November	wet   moist		6.7-6.7-6.7   2.5-3.3-4.9	2020		l mone	 	 
40 vermer	moist   wet		2.5-3.3-4.9   6.7-6.7-6.7	none		none		 
December	wet   moist		3.8-4.1-5.7	none		l none	l I	! 
· COCINOCI	wet		6.7-6.7-6.7	110110			<u> </u>	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I34A (continued)

Flaming (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L - R - H	L-R-H		ĺ	ĺ	ĺ	L-R-H
	ļ	ļ			ļ	ļ		
January	   moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	   none	 	 
_	wet	4.6-5.4-6.7	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none	i	none	i	i
	wet	5.2-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none	i	none	i	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none	i	none	i	i
	wet	2.1-2.5-6.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
fay :	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none	i	
	wet	2.5-2.8-5.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	
une	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.9-6.7					
	wet	4.1-4.9-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7					l
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7					l
	1				l	l	l	

Foxlake (3 percent of the map unit)

Month	  Moisture	l Top	Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	L-R-H	rrequency	duración	II equency	duración	Gepth   L - R - H
	! 	L - K - H			I I	i		<u> </u>
January	moist	0.0-0.0-0.0	0.8-2.1-4.1	none	j	none	j	j
	wet	0.8-2.1-4.1	6.7-6.7-6.7		ĺ	ĺ	İ	ĺ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none		i
	wet	1.6-2.5-4.9	6.7-6.7-6.7		ĺ	ĺ	İ	ĺ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none		
	wet	0.3-1.3-3.3	6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.0-1.6	6.7-6.7-6.7			[		
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7			[		
June	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			[		
July	moist		1.3-2.1-4.1			rare	very brief	0.0-0.2-0.
	wet		6.7-6.7-6.7					
August	moist		1.6-3.0-4.9			rare	very brief	0.0-0.2-0.
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
September	moist		1.3-2.5-4.1			rare	very brief	0.0-0.2-0.
	wet		6.7-6.7-6.7					
October	moist		0.8-1.6-3.3			occasional	very brief	0.0-0.2-0.
	wet		6.7-6.7-6.7					
November	moist		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
December	moist		0.8-1.6-3.3			none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
								l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I34A (continued)

Ulen (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L-R-H		 	 	 	L - R - H 
January	moist		  2.6-3.3-5.9	none		none		
January	wet		2.0-3.3-3.9   6.7-6.7-6.7	none	 	i none	 	 
February	wet   moist		3.3-4.1-6.7	none	 	l none	 	
rebruary	wet		6.7-6.7-6.7	none	 	l none	 	
March	moist		2.6-3.3-5.7	none	l 	l none	 	 
Mar CII	wet		6.7-6.7-6.7	none	 	l none	 	
April	moist		1.5-2.0-3.3	none	i	l none	i	i
	wet		6.7-6.7-6.7		 		i I	i I
May	moist		2.0-2.5-4.1	none	i	none	i	i
-	wet	2.0-2.5-4.1	6.7-6.7-6.7			İ		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		i
	moist	0.0-0.0-0.3	2.5-3.0-4.9		İ	i	İ	i
	wet	2.5-3.0-4.9	6.7-6.7-6.7		İ	İ	İ	İ
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	none	i	none	i	i
	moist	0.0-0.0-0.5	3.0-4.9-6.2		İ	İ	İ	İ
	wet	3.0-4.9-6.2	6.7-6.7-6.7			İ		
August	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
September			0.0-0.0-0.3	none		none		
	moist		2.6-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		2.3-3.0-5.7	none		none		
	wet		6.7-6.7-6.7			<u> </u>		
November	moist		2.0-2.5-4.9	none		none		
	wet		6.7-6.7-6.7			ļ		
December	moist		2.3-3.0-5.2	none	ļ	none		ļ
	wet	2.3-3.0-5.2	6.7-6.7-6.7					

\*

I36A Kittson loam, 0 to 3 percent slopes

Kittson (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H 	L-R-H		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  4.1-5.4-6.7	none		none	i	i
	wet		6.7-6.7-6.7		İ		i	i
February	moist		4.9-5.9-6.7	none		none	i	i
_	wet	4.9-5.9-6.7	6.7-6.7-6.7		İ	i	i	i
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none	j	j
	wet	3.3-4.9-6.7	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none	j	i
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
May	moist		2.1-2.8-4.9	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
	moist		2.6-3.1-5.7					
	wet		6.7-6.7-6.7			<u> </u>	ļ	
July	dry		0.0-0.0-0.3	none		none		
	moist		3.3-5.7-6.7			!	ļ	!
	wet		6.7-6.7-6.7			ļ	ļ	ļ
August	dry		0.0-0.0-0.5	none		none	!	!
	moist		4.9-6.7-6.7			ļ	ļ	ļ
	wet		6.7-6.7-6.7					ļ
September			0.0-0.0-0.3	none		none		ļ
	moist		3.6-4.9-6.7			ļ	!	!
0-1-1	wet		6.7-6.7-6.7				!	!
October	moist		3.0-4.3-5.7	none		none		ļ
November	wet   moist		6.7-6.7-6.7		 		!	!
November			2.3-3.3-4.9			none		
Da samba	wet		6.7-6.7-6.7		 			
December	moist		3.3-4.6-5.7 6.7-6.7-6.7	none		none		
	wet	13.3-4.0-5.7	0.7-0.7-0.7		 	 		
							l	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I36A (continued)

Roliss (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
	 		 			- I		<del></del>
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none		none		
	wet	1.6-3.0-4.1	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7		[			
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none		
	wet	1.3-2.1-3.3	6.7-6.7-6.7		[			
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
		0.0-0.5-2.5						
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June			0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
		0.7-1.3-4.1						
July			1.6-3.0-4.9			none		
			6.7-6.7-6.7					
August			2.5-3.8-5.7			none		
			6.7-6.7-6.7					
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
October			1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		ļ		!	
November			0.8-1.3-3.3	none	ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		[	ļ		
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Hamerly (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H		   		   	L - R - E
January	moist wet		2.5-4.1-5.7   6.7-6.7-6.7	none	 	none	 	 
February			3.3-4.9-6.7	none		none		
_	wet	3.3-4.9-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
April			0.7-1.3-3.3			none		
			6.7-6.7-6.7			!		
May	moist		1.0-1.5-4.1	none		none		
_			6.7-6.7-6.7					ļ
June	moist   wet		1.6-2.0-4.9   6.7-6.7-6.7	none		none		
July			0.7-6.7-6.7   0.0-0.0-0.3	none	l I	l none	l I	l I
July			2.5-3.3-5.4	none	 	l none	 	 
			6.7-6.7-6.7		! 	i	! 	I I
August			0.0-0.0-0.5	none		none		
-	moist	0.0-0.0-0.5	3.3-6.7-6.7			i	İ	İ
	wet	3.3-6.7-6.7	6.7-6.7-6.7		İ	İ	İ	İ
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.5-4.6-5.7					
			6.7-6.7-6.7					
october	moist		2.0-3.9-4.9	none		none		
	wet		6.7-6.7-6.7					
Tovember	moist		1.6-3.0-4.1	none		none		
			6.7-6.7-6.7					l
December			2.0-3.8-4.9	none		none		
	wet	2.0-3.8-4.9	6.7-6.7-6.7			!		!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I36A (continued)

Kratka (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	  -	 	L - R - H 
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	 	 
	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March			1.6-2.1-4.1	none		none		
			6.7-6.7-6.7					
April			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May			0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
_			6.7-6.7-6.7			!	!	
July			1.6-3.3-4.9	none		none		
			6.7-6.7-6.7			!		
August			2.5-4.1-5.7	none		none		
			6.7-6.7-6.7					
September			1.6-3.3-4.9   6.7-6.7-6.7	none		none		
October	wet     moist		0.7-0.7-0.7   1.3-2.5-4.1	none	l 	   rare	lrowr byiof	  0.0-0.1-0.3
occoper			1.3-2.3-4.1   6.7-6.7-6.7	none	 	rare	very prier	0.0-0.1-0.3 
November			0.7-0.7-0.7   0.8-1.6-3.3	none	l I	   rare	lucry brief	  0.0-0.1-0.3
40 velimer			6.7-6.7-6.7	none	 	Tare	very prier	0.0-0.1-0.3 
December			0.7-0.7-0.7   1.3-2.1-3.8	none	! !	l none		! !
,ecember			1.3-2.1-3.6   6.7-6.7-6.7	110116	] 	none	 	 

## Grimstad (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 	 -	 	L - R - H 
January	   moist	  0.0-0.0-0.0	  2.5-3.8-5.7	none	 	none	 	 
_	wet	2.5-3.8-5.7	6.7-6.7-6.7		İ	i	į	İ
February	moist	0.0-0.0-0.0	3.3-4.6-6.7	none	i	none	j	i
	wet	3.3-4.6-6.7	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
March	moist	0.0-0.0-0.0	2.5-3.0-5.7	none		none		
	wet	2.5-3.0-5.7	6.7-6.7-6.7					I
April			0.8-1.5-3.3	none		none		
			6.7-6.7-6.7					
May			1.1-1.8-4.1	none	ļ	none	!	!
			6.7-6.7-6.7		!	!	!	!
June	moist		1.6-3.3-4.9	none	ļ	none	!	!
			6.7-6.7-6.7					!
July			0.0-0.0-0.3	none		none		
	moist		2.5-5.7-6.2   6.7-6.7-6.7		 		 	
August			0.7-6.7-6.7   0.0-0.0-0.5	none	l i	   none	l I	 
August			0.0-0.0-0.3   6.7-6.7-6.7	none	 	l none	 	
September			0.7-0.7-0.7   0.0-0.0-0.3	none	l 	none	 	 
осресиюсь			2.5-3.8-6.7	110110	! 	110110	i	i
			6.7-6.7-6.7		i	i	i	i
October			2.0-3.0-5.6	none	i	none	i	i
	wet	2.0-3.0-5.6	6.7-6.7-6.7		İ	i	i	i
November	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none	j	j
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	İ	ĺ	ĺ
December	moist	0.0-0.0-0.0	2.0-3.3-5.4	none		none		
	wet	2.0-3.3-5.4	6.7-6.7-6.7					1

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I36A (continued)

Strandquist (3 percent of the map unit)

	1	ı	ı	i	1	1	1	ı
Month	  Moisture	   Top	Bottom	Flooding	Flooding	   Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	i			İ	-İ	.	İ
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	l none	 	   none	 	 
2	wet		6.7-6.7-6.7	•	i		i	i
February	moist		2.5-3.3-4.9			none	i	i
_	wet	2.5-3.3-4.9	6.7-6.7-6.7	İ	i	İ	İ	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none	i	j
	wet	1.6-2.1-4.1	6.7-6.7-6.7	İ	İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	j	occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7		İ	İ	İ	ĺ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7					[
June	moist		0.8-1.6-4.1			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7	•				
July	moist		1.6-3.3-4.9	•		none		
	wet		6.7-6.7-6.7					ļ
August	moist		2.5-4.1-5.7	•		none		ļ
	wet		6.7-6.7-6.7	•			1	
September	!		1.6-3.3-4.9		ļ	none	ļ	!
_	wet		6.7-6.7-6.7	•		!	!	
October	moist		1.3-2.5-4.1	•		rare	very brief	0.0-0.3-0.
,	wet		6.7-6.7-6.7			!	!	!
November	moist		0.8-1.6-3.3	•		none	!	ļ
	wet		6.7-6.7-6.7			!	!	!
December	moist		1.3-2.1-3.8			none		
	wet	11.3-2.1-3.8	6.7-6.7-6.7	 				1
	.				l	_	.	l

Foxhome (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H		 		 	L - R - H 
January	moist   wet	0.0-0.0-0.0   4.8-5.4-6.7		none	 	none		
February	wet   moist		5.2-5.7-6.7	none	l 	l none	 	! !
rebruary	wet	5.2-5.7-6.7		none	 	none	 	 
March	moist	0.0-0.0-0.0		none	! 	l none	! !	! !
	wet	3.3-4.6-6.7			 		i	i
April	moist	0.0-0.0-0.0	1.3-2.5-4.9	none	i	none	i	i
	wet	1.3-2.5-4.9	6.7-6.7-6.7		İ	İ	į	İ
May	moist	0.0-0.0-0.0	2.0-3.0-5.6	none		none	j	i
	wet	2.0-3.0-5.6	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
		0.0-0.0-0.5						
	wet	2.6-3.6-6.2						
July	dry	0.0-0.0-0.0		none		none		
	moist	0.0-0.0-0.7				ļ	!	!
	wet	3.9-5.4-6.7				!	!	!
August	dry	0.0-0.0-0.0		none		none		
	moist	0.0-0.0-1.0   5.4-6.7-6.7			 	!		
September	wet   dry	5.4-6.7-6.7     0.0-0.0-0.0		none	l I	   none	l I	
september	dry   moist	0.0-0.0-0.3		none	 	none	 	 
	wet	4.1-4.6-6.7			 	-	 	! !
October	moist	0.0-0.0-0.0		none	! 	l none	! !	! !
0000001	wet	3.6-3.9-6.7			! 		i	i
November	moist	0.0-0.0-0.0		none		none	i	i
	wet	2.5-3.3-5.7			İ	i	i	i
December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none	j	j
	wet	3.9-4.6-6.2	6.7-6.7-6.7			İ	İ	İ
	l	li	i			.		l

## Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I38A Kratka fine sandy loam, 0 to 2 percent slopes

Kratka (70 percent of the map unit)

			1		1	1		1
Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į i	L-R-H	L-R-H		 		į i	L-R-H
January	moist	    0.0-0.0-0.0	1.6-3.0-4.1	none		none		   
ounder,			6.7-6.7-6.7	•		110110	1	i i
February	moist		2.5-3.3-4.9		i	none	i	i
2	wet		6.7-6.7-6.7	•	i		i	i
March	moist		1.6-2.1-4.1	•		none	i	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7	İ	i	İ	i	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7	İ	İ	İ	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	i	occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet		6.7-6.7-6.7	•				
August	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September	•		1.6-3.3-4.9			none		
			6.7-6.7-6.7	•	ļ			
October	moist		1.3-2.5-4.1		ļ	rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7	•	!	!	!	!
November	moist		0.8-1.6-3.3			rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7				!	!
December	moist		1.3-2.1-3.8	•		none	!	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	l					-	.	

Smiley (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	i 	 
	wet	1.6-3.0-4.1	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none		
			6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				ļ	
May	moist		0.3-0.8-3.3		ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.7-1.3-4.1			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9			none		
			6.7-6.7-6.7   2.5-3.8-5.7					
August	moist   wet		2.5-3.8-5.7   6.7-6.7-6.7			none		
September			6.7-6.7-6.7    2.0-3.3-4.9		l I	   rare	l	  0.0-0.3-0.5
september	wet		2.0-3.3-4.9   6.7-6.7-6.7		 	rare		0.0-0.3-0.5 
October	wet   moist		0.7-0.7-0.7   1.3-1.6-4.1		l 	   rare	  very brief	I  0.0-0.3-0.5
occoper	wet		6.7-6.7-6.7		 	Tare	very brier	0 • 0 = 0 • 5 = 0 • 5 
November	moist		0.8-1.3-3.3		! 	occasional	   brief	ı  0.0-0.3-0.5
	wet		6.7-6.7-6.7		! 		=====	
December	moist	•	11.3-2.1-3.8		i	none	i	i
	wet		6.7-6.7-6.7		i I		i	i I
	1	i			i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I38A (continued)

Foldahl (5 percent of the map unit)

						Ι	I	
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	moist	    0 0-0 0-0 0	4.6-5.4-6.7	none		none		
Uanuary	wet		6.7-6.7-6.7		]	l none	i	 
February	moist		4.9-5.7-6.7	none		none	i	i
	wet	4.9-5.7-6.7	6.7-6.7-6.7			[		
March	moist		3.3-4.6-6.7			none		
	wet		6.7-6.7-6.7			ļ	!	!
April	moist		1.3-2.5-4.6			none		
V	wet   moist		6.7-6.7-6.7   2.0-3.1-5.2		l I	l none	l I	
May	moist		2.0-3.1-5.2   6.7-6.7-6.7		 	none		
June	dry		0.0-0.0-0.3		! 	l none	 	! !
0 4110	moist		2.6-3.8-6.2		! 		i	i
	wet		6.7-6.7-6.7		İ	İ	İ	İ
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	none	i	none	j	j
	moist	0.0-0.0-0.5	3.8-4.9-6.7		İ	Ì	İ	ĺ
	wet		6.7-6.7-6.7			[		
August	dry		0.0-0.0-0.7	none		none		
	moist		5.2-6.7-6.7			!	!	!
	wet		6.7-6.7-6.7					
September	dry   moist		0.0-0.0-0.3  3.8-4.1-6.7			none		
	moist		3.8-4.1-6.7   6.7-6.7-6.7		 		 	 
October	moist		3.3-3.8-6.7	none	l 	l none	 	 
CCCCDCI	wet		6.7-6.7-6.7		! 	110110		i
November	moist		2.5-3.3-5.6	none		none	i	i
	wet	2.5-3.3-5.6	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	3.8-4.1-6.2	none		none	j	j
	wet	3.8-4.1-6.2	6.7-6.7-6.7			ļ.	ļ.	ļ

Kratka, very cobbly (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H   			 -	 	L - R - H 
January	moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	 	 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		:	i	i	i
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	j
	wet	2.5-3.3-4.9	6.7-6.7-6.7			İ	İ	ĺ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May			0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
		0.5-0.8-3.3						
June		0.0-0.0-0.0		none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7			ļ	!	!
July		0.0-0.0-0.0		none		none	!	ļ
			6.7-6.7-6.7			!	!	<u> </u>
August			2.5-4.1-5.7	none		none		
			6.7-6.7-6.7			!	ļ	
September			1.6-3.3-4.9	none		none		
N 1			6.7-6.7-6.7				 	
October		0.0-0.0-0.0		none		rare	very brier	0.0-0.1-0.3
Jovember		1.3-2.5-4.1	6.7-6.7-6.7   0.8-1.6-3.3		l I			  0.0-0.1-0.3
ovember			0.8-1.6-3.3   6.7-6.7-6.7		<del></del>	rare	very brier	10.0-0.1-0.3
ecember		0.8-1.6-3.3   0.0-0.0-0.0		none	l i	l none	I I	l I
ecember		0.0-0.0-0.0   1.3-2.1-3.8		none	<del></del>	none		 
	l wer	11.3-4.1-3.6	0.7-0.7-0.7		I	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I38A (continued)

Strathcona (5 percent of the map unit)

Month			Datter	Flooding	   Flooding	Ponding	Ponding	Ponding
Month	Moisture   status	Top depth	Bottom depth	frequency	duration	frequency	duration	depth
	status	L-R-H	L-R-H	rrequency	duration	frequency	duration	L-R-H
	I I	L - K - п	т - к - н	 	 	l I	l I	L - K - д
		l ————————————————————————————————————	l	l	l ————————————————————————————————————	 		l ————————————————————————————————————
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	¦	 
_	wet	1.6-3.0-4.1	6.7-6.7-6.7		<u> </u> 	i	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
-	wet	2.5-3.3-4.9	6.7-6.7-6.7	İ	:	i	i	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none	i	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7	ĺ	İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	l					l	l	

Kratka, depressional (3 percent of the map unit)

Month	  Moisture	   Top	Bottom	Flooding	   Flooding	Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	ĺ	L-R-H	L - R - H		İ	ĺ	ĺ	L - R - H
	ļ	ļ	!I			ļ	!	ļ
January	   moist	 	  1.0-1.6-3.0	none	 	  occasional	l long	  0.0-0.5-1.0
Uanuar y			6.7-6.7-6.7		 	l	l 10119	0.0-0.5-1.0
February	moist		11.6-2.5-3.6		! 	occasional	l long	ı  0.0-0.5-1.0
- 022 442 7	wet		6.7-6.7-6.7		! 			 
March	moist		0.0-0.0-2.0			occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7			i	i	İ
April	moist	0.0-0.0-0.0	0.0-0.0-1.0	none	i	frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.0	6.7-6.7-6.7			İ	ĺ	
May	moist	0.0-0.0-0.0	0.0-0.0-2.0	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7					l
June	moist		0.2-0.8-2.5			occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.7-1.6-3.0			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!		
August	moist		1.6-2.5-3.6			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
September			1.0-1.6-3.0			rare	brief	0.0-0.3-0.5
October	wet   moist		6.7-6.7-6.7   0.7-1.3-2.6		l I	  occasional	   brief	  0.0-0.3-0.5
October	moist   wet	•	6.7-1.3-2.6     6.7-6.7-6.7		 	Occasional	Driei	0 . 0 - 0 . 3 - 0 . 5
November	wet   moist		0.3-0.8-1.6		l 	  occasional	l l long	  0.0-0.5-1.0
110 vember	wet		6.7-6.7-6.7		 		l 1011g	0.0-0.5 <b>-</b> 1.0
December	moist		0.7-1.3-2.3		! 	occasional	l long	ı  0.0-0.5-1.0
	wet		6.7-6.7-6.7		! 			
	1			! 	! 	i	i	i I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I38A (continued)

Strandquist (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L-R-H		 			L - R - H
						ļ		
January	moist		1.6-3.0-4.1	none		none		
Tab	wet   moist	1.6-3.0-4.1	6.7-6.7-6.7   2.5-3.3-4.9		 		1	1
February				none		none		
March	wet   moist	2.5-3.3-4.9	6.7-6.7-6.7   1.6-2.1-4.1		 		I I	 
March	moist   wet		1.6-2.1-4.1   6.7-6.7-6.7		<del></del>	none		
April	wet   moist		0.0-0.5-2.5		I I	  occasional	   brief	  0.0-0.3-0.
ADIII	moist   wet		6.7-6.7-6.7	none		Occasionai	l prier	1
May	wet   moist		0.5-0.8-3.3	none	! !	  occasional	lucry brief	  0.0-0.3-0.
nay	wet		6.7-6.7-6.7		 	l	very brier	1
June	moist	0.0-0.0-0.0		none	 	   rare	  verv brief	  0.0-0.3-0.
ounc		0.8-1.6-4.1		110110	! I	1		1
July	moist		1.6-3.3-4.9	none		l none	i	i
0 427			6.7-6.7-6.7		i		i	i
August			2.5-4.1-5.7		i	none	i	i
	wet		6.7-6.7-6.7		i	i .	i	i
September	moist		1.6-3.3-4.9	none	i	none	i	i
-	wet	1.6-3.3-4.9	6.7-6.7-6.7		i	i	i	i
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none	j	rare	very brief	0.0-0.3-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7		į	i	į -	į
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	j	none	j	j
	wet	0.8-1.6-3.3	6.7-6.7-6.7		Ì	İ	İ	ĺ
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none	i	none		i
	wet	1.3-2.1-3.8	6.7-6.7-6.7		I	1	1	I
	l	li	i		I	I	I	I

Linveldt (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H		 	 	 	L - R - H
January	moist		4.8-5.4-6.7	none		none		
	wet	4.8-5.4-6.7						
February	moist	0.0-0.0-0.0		none		none		ļ
	wet	5.2-5.7-6.7						
March	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					!
April	moist		1.3-2.5-4.9	none		none		!
	wet	1.3-2.5-4.9				!		!
May	moist		2.0-3.0-5.6	none		none		!
_	wet	2.0-3.0-5.6						
June	dry	0.0-0.0-0.0		none		none		
	moist	0.0-0.0-0.5						
	wet	2.6-3.6-6.2				ļ		ļ
July	dry	0.0-0.0-0.0		none		none		ļ
	moist	0.0-0.0-0.7						!
	wet	3.9-5.4-6.7			l i		l	!
August	dry moist	0.0-0.0-0.0   0.0-0.0-1.0		none		none		ļ
	moist   wet		5.4-6.7-6.7     6.7-6.7-6.7		l I	 	l i	
September			0.0-0.0-0.3	2020	] 		l I	 
september.	ary   moist		0.0-0.0-0.3   4.1-4.6-6.7	none		none	 	
	moist   wet		4.1-4.6-6.7   6.7-6.7-6.7		 	 	l I	! !
October	wet   moist		3.6-3.9-6.7	none	! !	l I none	l 	¦
occoper	wet		6.7-6.7-6.7	none	 	l none	<del>-</del>	i
November	wet   moist		2.5-3.3-5.7	none	 	l I none	l I	 
110 v Childer	wet	2.5-3.3-5.7		110116	I I	110116	 	i
December	moist		3.9-4.6-6.2	none	! 	l none	l I	! !
December	wet		6.7-6.7-6.7	110116	I	110116	 	
	1		0.7 0.7 0.7		! 	! !	! !	¦

## Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I39A Linveldt fine sandy loam, 0 to 3 percent slopes

Linveldt (65 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į I	L - R - H	L - R - H		 	İ	j I	L - R - H
January	moist	    0 0-0 0-0 0		none		none	   	   
Januar y	wet		<del>1.</del> 0-3.4-0.7     6.7-6.7-6.7		 	l none	i	i
February	moist		5.2-5.7-6.7			none	¦ 	! !
. 022 442 7	wet		6.7-6.7-6.7		 		i	i
March	moist		3.3-4.6-6.7	none		none	i	i
	wet	3.3-4.6-6.7	6.7-6.7-6.7		<u> </u>	İ	i	i
April	moist	0.0-0.0-0.0	1.3-2.5-4.9	none		none	j	i
	wet	1.3-2.5-4.9	6.7-6.7-6.7		İ	İ	į	İ
May	moist	0.0-0.0-0.0	2.0-3.0-5.6	none	i	none	j	j
	wet	2.0-3.0-5.6	6.7-6.7-6.7		İ	İ	İ	İ
une	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none	j	i
	moist	0.0-0.0-0.5	2.6-3.6-6.2			İ	ĺ	ĺ
	wet	2.6-3.6-6.2	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist		3.9-5.4-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		
	moist		5.4-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		4.1-4.6-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.6-3.9-6.7	none		none	!	!
	wet		6.7-6.7-6.7				!	!
November	moist		2.5-3.3-5.7			none	!	!
	wet		6.7-6.7-6.7			!	ļ.	!
December	moist		3.9-4.6-6.2	none		none	!	!
	wet	3.9-4.6-6.2	6.7-6.7-6.7			!	!	!
						l		

Kratka (14 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none		none	i	 
_	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	i	į	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	j	none	j	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	ĺ	ĺ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ	ļ		
June	: :		0.8-1.6-4.1	none	ļ	rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7					
July	moist		1.6-3.3-4.9	none		none		
			6.7-6.7-6.7   2.5-4.1-5.7					
August	moist		2.5-4.1-5.7   6.7-6.7-6.7	none		none		
September	1		0.7-6.7-6.7   1.6-3.3-4.9	none	l 	l none		l 
september			6.7-6.7-6.7	none	 	I Hone		 
October	wet     moist		1.3-2.5-4.1	none	! !	   rare	l lverv brief	  0.0-0.1-0.3
occoper			6.7-6.7-6.7	none	 	l rare	very brier	0.0-0.1-0.
November	moist		0.8-1.6-3.3	none		rare	verv brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7		i İ			
December	moist		1.3-2.1-3.8	none	i	none		
	wet		6.7-6.7-6.7		İ	i	i	İ
	i i		i i		i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I39A (continued)

Reiner (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H			İ	İ I	L - R - H
_								
January	moist		4.1-5.4-6.7			none		
February	wet   moist		6.7-6.7-6.7   4.9-5.9-6.7		 	l none	l I	l I
ebruary	moist   wet		4.9-5.9-6.7   6.7-6.7-6.7		<del></del>	none		
March			3.3-4.9-6.7		l 	l none	l I	l I
March			6.7-6.7-6.7		 	l none	 	 
April	moist		1.6-2.5-4.1		   <b></b>	none	! 	 
pr.r.	wet		6.7-6.7-6.7			110110	<u> </u>	! !
May	moist		2.1-2.8-4.9			none	i	i
2			6.7-6.7-6.7				i	i
June	moist		2.6-3.1-5.7			none	i	i
	wet	2.6-3.1-5.7	6.7-6.7-6.7		İ	i	i	i
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none	j	i
	moist	0.0-0.0-0.3	3.3-5.7-6.7		İ	İ	İ	İ
	wet	3.3-5.7-6.7	6.7-6.7-6.7			İ	ĺ	ĺ
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	4.9-6.7-6.7					
	wet	4.9-6.7-6.7	6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		3.6-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.0-4.3-5.7			none		
	wet		6.7-6.7-6.7					
November	moist		2.3-3.3-4.9			none		
	wet		6.7-6.7-6.7			1	[	
December	:		3.3-4.6-5.7	none		none	!	!
	wet	3.3-4.6-5.7	6.7-6.7-6.7			!	!	!
	l				l		l	

Smiley (5 percent of the map unit)

					1		1	·
Month	  Moisture	   Top	Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H	   	İ	į	į	L - R - H
	 		<del></del>		ļ	-		
January	moist		1.6-3.0-4.1	•		none	ļ	
_	wet		6.7-6.7-6.7			ļ.	!	
February	moist		2.5-3.3-4.9	•		none	ļ	
_	wet		6.7-6.7-6.7	•		ļ.	!	
March	moist		1.3-2.1-3.3			none	!	
	wet		6.7-6.7-6.7	•	!			
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!			
May	moist		0.3-0.8-3.3	•		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•	!			
June	moist		0.7-1.3-4.1	•		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•	!	ļ	!	
July	moist		1.6-3.0-4.9			none	ļ	
	wet		6.7-6.7-6.7	•	!	ļ	!	
August	moist		2.5-3.8-5.7	•		none	ļ	
	wet		6.7-6.7-6.7	•	!	ļ		
September	:		2.0-3.3-4.9	•		rare	very brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7	•		!		
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•		!		
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ.	!	l
December	moist		1.3-2.1-3.8	•	ļ	none	ļ	ļ
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!	!	!	l
						_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I39A (continued)

Eckvoll (3 percent of the map unit)

tatus	Top depth L - R - H	depth	Flooding	Flooding	Ponding		Ponding
    	L - R - H		frequency	duration	frequency	duration	depth
i		L-R-H		İ	į	j I	L-R-I
. :					ļ		
		4.6-5.4-6.7	none		none		
		6.7-6.7-6.7		 			ļ
		4.9-5.7-6.7	none		none		ļ
		6.7-6.7-6.7		 			
		3.3-4.6-6.7	none		none		
		6.7-6.7-6.7					ļ
		2.1-2.5-4.6	none		none		
		6.7-6.7-6.7				ļ	ļ
		2.6-3.1-5.2	none		none		ļ
		6.7-6.7-6.7		 			
		0.0-0.0-0.3	none		none		
		2.6-3.8-6.2		l i			
		6.7-6.7-6.7   0.0-0.0-0.5		l I			 
			none	<del></del>	none		
				l i		!	
				l I			 
			none	<del></del>	l none		
				l i		 	l i
			nono	 	l none	l I	l I
			none	 	Hone	 	 
				l I	1	l I	l I
			none	l I	l none	l I	l I
			none	 	l none	 	 
			nono	l I	l none	l I	l I
			none	- <b></b> 	Hone	<b>-</b>	 !
			none	l l	l none	I I	! !
			110116	 	l mone	I I	ı I
wet	3.0-4.1-0.2	0 . / - 0 . / - 0 . /   		 		I I	I I
W d O W O W O W O W	vet   iry   ist   vet   iry   iist   vet   iist   vet   iist   vet   iist   vet   iist   vet   iist   vet   iist	ret   3.8-4.9-6.7   dry   0.0-0.0-0.0   dist   0.0-0.0-0.8   ret   5.2-6.7-6.7   dry   0.0-0.0-0.3   ret   3.8-4.1-6.7   dist   0.0-0.0-0.0   ret   3.3-3.8-6.7   dist   0.0-0.0-0.0   ret   2.5-3.3-5.6   dist   0.0-0.0-0.0	ret   3.8-4.9-6.7   6.7-6.7-6.7   dry   0.0-0.0-0.0   0.0-0.0-0.8   5.2-6.7-6.7     1.5	ret   3.8-4.9-6.7 6.7-6.7-6.7  ret   0.0-0.0-0.0 0.0-0.0-0.8  rot   0.0-0.0-0.8 5.2-6.7-6.7  ret   5.2-6.7-6.7 6.7-6.7-6.7  ret   0.0-0.0-0.0 0.0-0.0-0.3  rist   0.0-0.0-0.0 0.0-0.0-0.3  ret   3.8-4.1-6.7 6.7-6.7-6.7  ret   3.8-4.1-6.7 6.7-6.7-6.7  ret   3.3-3.8-6.7 6.7-6.7-6.7  ret   0.0-0.0-0.0 2.5-3.3-5.6  ret   0.0-0.0-0.0 2.5-3.3-5.6  ret   2.5-3.3-5.6 6.7-6.7-6.7  ret   0.0-0.0-0.0 3.8-4.1-6.2  ret   0.0-0.0-0.0 3.8-4.1-6.2  ret   0.0-0.0-0.0 3.8-4.1-6.2	ret   3.8-4.9-6.7   6.7-6.7-6.7	ret   3.8-4.9-6.7   6.7-6.7-6.7	ret   3.8-4.9-6.7   6.7-6.7-6.7

Foldahl (2 percent of the map unit)

		_					ļ	ļ <u>.</u>
Month	Moisture	Top	Bottom depth	Flooding	Flooding   duration	Ponding	Ponding   duration	Ponding depth
	status	depth	deptn  L-R-H	frequency	duration	frequency	duration	deptn  L-R-H
	ļ		L - K - H			ļ	ļ	
January	   moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	 	 
	wet	4.6-5.4-6.7	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none	i	none	j	j
	wet	4.9-5.7-6.7	6.7-6.7-6.7			ĺ	Ì	ĺ
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none	j	i
	wet	3.3-4.6-6.7	6.7-6.7-6.7			[		
April	moist	0.0-0.0-0.0	1.3-2.5-4.6	none		none		
	wet	1.3-2.5-4.6	6.7-6.7-6.7			[		
May	moist	0.0-0.0-0.0	2.0-3.1-5.2	none		none		
	wet	2.0-3.1-5.2	6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist		2.6-3.8-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5			none		
	moist		3.8-4.9-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.7			none		
	moist		5.2-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		3.8-4.1-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-3.8-6.7			none		
	wet		6.7-6.7-6.7				ļ	
November	moist		2.5-3.3-5.6			none		ļ
	wet		6.7-6.7-6.7			ļ	ļ	ļ.
December	moist		3.8-4.1-6.2	none		none	ļ	!
	wet	3.8-4.1-6.2	6.7-6.7-6.7					
		l						

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I39A (continued)

Pelan (1 percent of the map unit)

status   depth   depth   frequency   duration   frequency   duration   dep	Month	  Moisture	l Top	Bottom	Flooding	   Flooding	   Ponding	Ponding	   Ponding
January   moist   0.0-0.0-0.0   4.8-5.4-6.7   none     none     wet   4.8-5.4-6.7   6.7-6.7-6.7   none     none     none       wet   4.8-5.4-6.7   6.7-6.7-6.7   none     none     none       wet   5.2-5.7-6.7   6.7-6.7-6.7   none     none     none     none     wet   3.3-4.6-6.7   6.7-6.7-6.7   none     none		status		depth					depth
wet   4.8-5.4-6.7   6.7-6.7-6.7   none     none		į	L-R-H	L-R-H		İ	į	į	L - R - 1
wet   4.8-5.4-6.7   6.7-6.7-6.7   none     none						 			
Pebruary   moist   0.0-0.0-0.0   5.2-5.7-6.7   none     none         wet   5.2-5.7-6.7   6.7-6.7-6.7   none     none       farch   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none       wet   3.3-4.6-6.7   6.7-6.7-6.7     April   moist   0.0-0.0-0.0   1.3-2.5-4.9   none     none       wet   1.3-2.5-4.9   6.7-6.7-6.7     fay   moist   0.0-0.0-0.0   2.0-3.0-5.6   none     none       wet   2.0-3.0-5.6   6.7-6.7-6.7     fune   dry   0.0-0.0-0.0   0.0-0.0-0.5   none     none       moist   0.0-0.0-0.5   2.6-3.6-6.2     wet   2.6-3.6-6.2   6.7-6.7-6.7     fully   dry   0.0-0.0-0.0   0.0-0.0-7   none     none       moist   0.0-0.0-0.7   3.9-5.4-6.7     wet   3.9-5.4-6.7   6.7-6.7-6.7     day   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   5.4-6.7-6.7     wet   5.4-6.7-6.7   6.7-6.7-6.7     dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none         moist   0.0-0.0-0.0   0.0-0.0-0.0   none     none         deptember   dry   0.0-0.0-0.0   3.6-3.9-6.7   none     none         october   moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         dovember   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none             december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none         december   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none         december   moist	January	1			none	ļ	none	!	!
wet   5.2-5.7-6.7   6.7-6.7-6.7									<u> </u>
March	'ebruary	!					none	ļ	!
wet   3.3-4.6-6.7   6.7-6.7-6.7							!		
April moist   0.0-0.0-0.0   1.3-2.5-4.9   none     none     wet   1.3-2.5-4.9   6.7-6.7-6.7     none     none       wet   2.0-3.0-5.6   none	larch	1					none		ļ
wet   1.3-2.5-4.9   6.7-6.7-6.7									!
May moist   0.0-0.0-0.0   2.0-3.0-5.6   none	Aprii	1					none		!
wet   2.0-3.0-5.6   6.7-6.7-6.7	f					l i		 	
Tune   dry   0.0-0.0-0.0   0.0-0.0-0.5   none     none         moist   0.0-0.0-0.5   2.6-3.6-6.2                 wet   2.6-3.6-6.2   6.7-6.7-6.7           Tuly   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none         moist   0.0-0.0-0.7   3.9-5.4-6.7             wet   3.9-5.4-6.7   6.7-6.7-6.7             wet   3.9-5.4-6.7   6.7-6.7             moist   0.0-0.0-1.0   5.4-6.7-6.7             moist   0.0-0.0-1.0   5.4-6.7-6.7           moist   0.0-0.0-0.0   0.0-0.0-0.3   none     none         September   dry   0.0-0.0-0.3   4.1-4.6-6.7           moist   0.0-0.0-0.3   4.1-4.6-6.7             moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         wet   4.1-4.6-6.7   6.7-6.7-6.7           moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         moist   0.0-0.0-0.0   3.9-4.6-6.2	ay	!				<del></del>	l none		!
moist   0.0-0.0-0.5   2.6-3.6-6.2						l I		 	 
wet   2.6-3.6-6.2   6.7-6.7-6.7	une	1				 	Hone	 	
Tuly dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none         moist   0.0-0.0-0.7   3.9-5.4-6.7       wet   3.9-5.4-6.7   6.7-6.7-6.7       august   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   5.4-6.7-6.7       wet   5.4-6.7-6.7   6.7-6.7-6.7       september   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   4.1-4.6-6.7       wet   4.1-4.6-6.7   6.7-6.7-6.7       cotober   moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         wet   3.6-3.9-6.7   6.7-6.7-6.7       sovember   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         wet   2.5-3.3-5.7   6.7-6.7-6.7       coecember   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none         0   0.0-0.0   0.0-0						l I	 	] 	! !
moist   0.0-0.0-0.7   3.9-5.4-6.7	T11 ] 32					! !	l none	¦	¦
wet   3.9-5.4-6.7   6.7-6.7-6.7	, ary					 	l none	i	
August   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none         moist   0.0-0.0-1.0   5.4-6.7-6.7           wet   5.4-6.7-6.7   6.7-6.7-6.7         September   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none         moist   0.0-0.0-0.3   4.1-4.6-6.7           wet   4.1-4.6-6.7   6.7-6.7-6.7         Doctober   moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         wet   3.6-3.9-6.7   6.7-6.7-6.7         November   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none           December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none		!				! 	<u> </u>	<u> </u>	¦
moist   0.0-0.0-1.0   5.4-6.7-6.7	August					 	l none	i	i
wet   5.4-6.7-6.7   6.7-6.7-6.7						i I		i	i
September dry   0.0-0.0-0.0   0.0-0.0-0.3   none						i	i	i	i
wet   4.1-4.6-6.7   6.7-6.7-6.7	September	dry			none		none	i	i
October   moist   0.0-0.0-0.0   3.6-3.9-6.7   none     none         wet   3.6-3.9-6.7   6.7-6.7-6.7         November   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none         wet   2.5-3.3-5.7   6.7-6.7-6.7         December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none	-	moist	0.0-0.0-0.3	4.1-4.6-6.7		i	i	i	i
wet   3.6-3.9-6.7   6.7-6.7-6.7		wet	4.1-4.6-6.7	6.7-6.7-6.7			i	İ	İ
Tovember   moist   0.0-0.0-0.0   2.5-3.3-5.7   none     none	ctober	moist	0.0-0.0-0.0	3.6-3.9-6.7	none	i	none	j	i
wet   2.5-3.3-5.7   6.7-6.7-6.7		wet	3.6-3.9-6.7	6.7-6.7-6.7		İ	İ	İ	İ
December   moist   0.0-0.0-0.0   3.9-4.6-6.2   none     none	lovember	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	i	none	j	i
		wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
wet  3.9-4.6-6.2 6.7-6.7	December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none		
		wet	3.9-4.6-6.2	6.7-6.7-6.7			1		
				i					

I41A Markey muck, 0 to 1 percent slopes

Markey (80 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		 			L - R - H
_								
January	moist   wet		0.5-1.3-3.3   6.7-6.7-6.7			occasional	long	0.0-0.3-0.5
February	wet   moist		11.3-2.1-4.1	none	! !	  occasional	llong	I  0.0-0.3-0.5
rebruary	wet		6.7-6.7-6.7		 		l	0.0-0.5-0.5
March	moist		0.0-0.0-2.5		i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	İ	į	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	i	frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3		ļ	frequent	long	0.0-0.5-1.0
<b>-</b>	wet		6.7-6.7-6.7				1 1	
June	moist   wet		0.0-0.0-1.6   6.7-6.7-6.7			occasional	brief	0.0-0.5-1.0
July	wet   moist		0.2-0.8-2.5		l 	   rare	  verv brief	  0.0-0.3-0.5
Culy	wet		6.7-6.7-6.7		İ	1410		• • • • • • • • • • • • • • • • • • •
August	moist		0.8-1.6-3.3		i	rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	į	İ
September	moist		0.3-1.1-3.0			rare	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ			ļ
October	moist		0.2-0.5-2.5		ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				1	
November	moist   wet		0.0-0.3-1.6   6.7-6.7-6.7		 	occasional	long	0.0-0.3-0.5
December	wet   moist		0.5-0.8-2.5		! 	  occasional	llong	  0.0-0.3-0.5
	wet		6.7-6.7-6.7		i			
	İ					İ	i	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I41A (continued)

Deerwood (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 .	L - R - H 
January	moist	0.0-0.0-0.0	    0.8-1.6-3.3	none	 	occasional	long	  0.0-0.5-1.0
_	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	i	i	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7			1		
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist		0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	!	!	
August	moist		0.8-1.6-3.3	none	ļ	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
September	moist		0.5-1.3-3.0	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!		
October	moist		0.3-0.8-2.5	none		occasional	brief	0.0-0.5-1.0
November	wet   moist		6.7-6.7-6.7   0.0-0.3-1.6		 	  occasional	   long	  0.0-0.5-1.0
vovember	moist   wet		0.0-0.3-1.6   6.7-6.7-6.7	none		occasional	l Tong	10.0-0.5-1.0
December	wet   moist		6.7-6.7-6.7   0.5-1.3-2.5	nono	 	  occasional	   long	  0.0-0.5-1.0
Jecember	moist   wet	0.5-1.3-2.5		none	ļ	loccasionai	l rong	10.0-0.5-1.0

Berner (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
I	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 	 _	 .	L - R - H 
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	 	  occasional	long	  0.0-0.3-0.
İ	wet	0.5-1.3-3.3	6.7-6.7-6.7			İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
March			0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.
			6.7-6.7-6.7					
April			0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.
			6.7-6.7-6.7					
May			0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
			6.7-6.7-6.7					
June			0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.
			6.7-6.7-6.7			ļ		
July			0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7			ļ		!
August			0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
_			6.7-6.7-6.7			!		
September			0.3-1.1-3.0	none		rare	brief	0.0-0.3-0.
			6.7-6.7-6.7			!	!	
October			0.2-0.5-2.5	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7				1	
November			0.0-0.3-1.6	none		occasional	long	0.0-0.3-0.
) 			6.7-6.7-6.7		 		1	1000000
December			0.5-0.8-2.5	none		occasional	long	0.0-0.3-0.
	wet	0.5-0.8-2.5	6.7-6.7-6.7		I	1	1	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I41A (continued)

Hamar (2 percent of the map unit)

Month	  Moisture	l Top	Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H				İ	L - R - H
	İ	İ	İi		i 	.i	i	İ
								l
January	moist		2.0-2.5-4.9			none		
			6.7-6.7-6.7					
February			2.5-3.3-5.7			none		
			6.7-6.7-6.7					
March			1.6-2.1-4.1			none		
			6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.
	wet	0.5-1.3-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.9-5.7	none		none		
	wet	2.5-4.9-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.3-3.0-4.9	none		none		
	wet	1.3-3.0-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.0-2.1-4.1	none		rare	very brief	0.0-0.3-0.
	wet	1.0-2.1-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					l
December	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7			1	1	I
	İ		İ		İ	İ	İ	İ

Seelyeville (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
i	j i	L-R-H	L-R-H		i	i	İ	L - R - H
i	İi	İi	ii		İ	_i	.i	İ
			l					
January			0.5-1.0-3.3	none		occasional	long	0.0-0.3-0.5
ľ			6.7-6.7-6.7					
February			1.3-1.6-4.1	none		occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7					
March			0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
ŀ			6.7-6.7-6.7					
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
ľ	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
ľ	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.0-0.3-1.6	none		frequent	brief	0.0-0.5-1.0
ľ	wet	0.0-0.3-1.6	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.0-0.8-2.5	none		occasional	very brief	0.0-0.3-0.5
ľ	wet	0.0-0.8-2.5	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	0.5-1.6-3.3	none		occasional	very brief	0.0-0.3-0.5
ľ	wet	0.5-1.6-3.3	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	0.3-1.1-3.0	none		occasional	very brief	0.0-0.3-0.5
ľ	wet	0.3-1.1-3.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
!	wet	0.0-0.5-2.5	6.7-6.7-6.7			1		
November	moist	0.0-0.0-0.0	0.0-0.3-1.6	none		occasional	long	0.0-0.3-0.5
İ	wet	0.0-0.3-1.6	6.7-6.7-6.7		1	1		l
December	moist	0.0-0.0-0.0	0.5-0.8-2.5	none	i	occasional	long	0.0-0.3-0.5
İ	wet	0.5-0.8-2.5	6.7-6.7-6.7		İ	İ	İ	İ
i	i i	i	i		i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I41A (continued)

Syrene (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		] 	 	 	L - R - н 
January	moist	0.0-0.0-0.0		none	   	none		   
			6.7-6.7-6.7		i		i	
February			2.5-3.3-5.7	none		none		
_	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	i	none	j	i
	wet	1.6-2.5-4.1	6.7-6.7-6.7		İ	İ	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none		occasional	very brief	0.0-0.3-0.
	wet	0.0-0.3-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			1.0-1.6-2.5	none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7					
July			1.6-2.5-4.9	none		none		
			6.7-6.7-6.7			!		
August	moist		2.5-3.3-5.7	none	ļ	none	ļ	
			6.7-6.7-6.7					
September			1.3-2.5-4.9	none		none		ļ
			6.7-6.7-6.7					
October			1.0-2.1-4.1	none		none		
			6.7-6.7-6.7   0.8-1.6-3.3					
November				none		none		
December			6.7-6.7-6.7   1.6-2.1-4.1	2020	 	l none	1	l I
becember			1.6-2.1-4.1   6.7-6.7-6.7	none	 	none		<del></del>
	wet	1.0-2.1-4.1	0.7-0.7-0.7		!	1	1	!

I42A Markey muck, ponded, 0 to 1 percent slopes

Markey, ponded (85 percent of the map unit)

Month	  Moisture	Ton				1	1	1
	Moisture		1		i	i	i	i
Month		Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
						.	.	
January	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
February	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
March	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
April	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
May	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
June	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
July	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
August	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
September	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
October	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
November	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
December	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
			ll		l	.	.	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I42A (continued)

Markey (5 percent of the map unit)

Month	  Moisture	Top	Bottom	Flooding	Flooding	   Ponding	   Ponding	   Ponding
MOITCII	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	L-R-H	ricquency	""	IICquency		L - R - H
	i		 			İ	i	
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	long	0.0-0.3-0.5
-	wet	0.5-1.3-3.3	6.7-6.7-6.7			i	i	i
February	moist		1.3-2.1-4.1			occasional	long	0.0-0.3-0.5
_	wet	1.3-2.1-4.1	6.7-6.7-6.7		ĺ	İ	i	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7			ĺ	ĺ	ĺ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7				1	
June	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.5
	wet	0.2-0.8-2.5	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist		0.3-1.1-3.0			rare	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				1	
October	moist		0.2-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet	0.2-0.5-2.5	6.7-6.7-6.7				1	
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.3-0.5
	wet	0.0-0.3-1.6	6.7-6.7-6.7					
December	moist		0.5-0.8-2.5			occasional	long	0.0-0.3-0.5
	wet	0.5-0.8-2.5	6.7-6.7-6.7					
						l		

Deerwood (4 percent of the map unit)

	1	I	I I					
Month	  Moisture	   Top	Bottom	Flooding	   Flooding	Ponding	Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 			L - R - H 
January	moist	10.0-0.0-0.0	0.8-1.6-3.3	none	   	  occasional	long	0.0-0.5-1.
0 411441 7	wet		6.7-6.7-6.7		i			
February	moist		1.6-2.5-4.1		i	occasional	long	0.0-0.5-1.
_	wet	1.6-2.5-4.1	6.7-6.7-6.7		i	i	i	i
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none	i	occasional	long	0.0-0.5-1.
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	j	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	j	frequent	long	0.0-0.5-1.
	wet	0.0-0.0-0.8	6.7-6.7-6.7		İ	į	İ	ĺ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
	wet	0.0-0.0-1.3	6.7-6.7-6.7					[
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
July	moist		0.2-0.8-2.5			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
September			0.5-1.3-3.0			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!		!	!
October	moist		0.3-0.8-2.5		ļ	occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7		!		!	!
November	moist		0.0-0.3-1.6		ļ	occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7		!	! .		
December	moist		0.5-1.3-2.5	none	ļ	occasional	long	0.0-0.5-1.
	wet	0.5-1.3-2.5	6.7-6.7-6.7		!	ļ	!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I42A (continued)

Seelyeville, ponded (4 percent of the map unit)

								1
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
							.	.
January	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
February	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
March	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
April	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
May	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
June	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
July	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
August	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
September	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
October	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
November	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
December	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
							.	.

Hamar (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H		 	İ		L-R-H
						ļ		
January	moist		2.0-2.5-4.9		!	none	ļ	!
			6.7-6.7-6.7		<u> </u>	!	!	!
February	moist		2.5-3.3-5.7		!	none	ļ	!
			6.7-6.7-6.7		<u> </u>	!	!	!
March	:	0.0-0.0-0.0		none		none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-1.3-3.3			occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					[
August	moist	0.0-0.0-0.0	2.5-4.9-5.7	none		none		
	wet	2.5-4.9-5.7	6.7-6.7-6.7					[
September	moist	0.0-0.0-0.0	1.3-3.0-4.9	none		none		
	wet	1.3-3.0-4.9	6.7-6.7-6.7					[
October	moist	0.0-0.0-0.0	1.0-2.1-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	1.0-2.1-4.1	6.7-6.7-6.7				1	
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7			1		I
December	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
	l	l	i			.		I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I42A (continued)

Hangaard (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			ļ		L - R - H
	 		 		l I		 	
January	moist	0.0-0.0-0.0	2.0-3.0-4.9	none	i	none	j	i
	wet	2.0-3.0-4.9	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none		none		
	wet	2.5-3.3-5.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			1.0-1.6-2.5	none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7					
July			1.6-2.5-4.9	none		none		
			6.7-6.7-6.7				ļ	
August	moist		2.5-3.3-5.7	none	ļ	none	ļ	
	wet		6.7-6.7-6.7		!	!	!	
September	moist		1.3-2.5-4.9	none	ļ	none	!	ļ
_			6.7-6.7-6.7		!	ļ	ļ	
October			1.0-2.1-4.1	none		none	!	ļ
			6.7-6.7-6.7				ļ	
November	: :		0.8-1.6-3.3	none		none		
	wet		6.7-6.7-6.7			I	ļ	l
December	moist		1.6-2.1-4.1	none		none	!	
	wet	1.6-2.1-4.1	6.7-6.7-6.7		l			l

I43A Mavie fine sandy loam, 0 to 2 percent slopes

Mavie (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H		İ	į	İ	L - R - H
		ļ			ļ	_!	.	!
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	   none		 
_	wet	1.6-3.0-4.1	6.7-6.7-6.7		į	i	İ	i
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	j
	wet	2.5-3.3-4.9	6.7-6.7-6.7		ĺ	į	İ	ĺ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7		!		!	!
July	moist		1.6-3.3-4.9	none	ļ	none	ļ	ļ
			6.7-6.7-6.7			ļ		!
August			2.5-4.1-5.7	none		none		
a	wet moist		6.7-6.7-6.7					
September			1.6-3.3-4.9   6.7-6.7-6.7	none		none		
October	wet   moist		0.7-6.7-6.7   1.3-2.5-4.1	none	l 	   rare	Irranii baiaf	  0.0-0.3-0.
October			1.3-2.3-4.1   6.7-6.7-6.7	none	 	rare	Aera prier	0 . 0 - 0 . 3 - 0 . :
November	wet   moist		0.7-0.7-0.7   0.8-1.6-3.3	none	! !	l none		! !
MOVEMBEL	wet		6.7-6.7-6.7	none	 	none		 
December	moist		11.3-2.1-3.8	none	! 	l none	i	
	wet		6.7-6.7-6.7		i i		i	i
	 I	= - 3	<b>    </b>		! 		1	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I43A (continued)

Vallers (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			1	1	L-R-H
						<u> </u>	l	
January	moist		1.6-3.0-4.1	none		none		
			6.7-6.7-6.7					
February	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7					
March	moist		1.3-2.1-3.3			none		
	wet		6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.3-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7			[	[	
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7			[		
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
	wet	2.0-3.3-4.9	6.7-6.7-6.7			1		
October	moist	0.0-0.0-0.0	1.3-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	1.3-1.6-4.1	6.7-6.7-6.7			I		
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7			I	1	
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7			I	I	
	1	İ	ı i		I	I	İ	I

Strandquist (7 percent of the map unit)

Month	Moisture	l Top	l Bottom I	Flooding	Flooding	Ponding	Ponding	l Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	   	L - R - н	L - R - н   		j I		İ	L - R - н
January	moist	0.0-0.0-0.0	    1.6-3.0-4.1	none	   	none		   
•	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	i	i	
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		ĺ	İ		ĺ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					l
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	!		
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				ļ	
July	moist wet		1.6-3.3-4.9   6.7-6.7-6.7	none		none		
August	wet   moist		0 . 7 - 6 . 7 - 6 . 7     2 . 5 - 4 . 1 - 5 . 7	none	l I	l none	 	l i
lugust	moist   wet		2.3-4.1-3.7   6.7-6.7-6.7	none	 	Hone		 
September	moist		1.6-3.3-4.9	none	 	none		 
0000000000			6.7-6.7-6.7		i I		i	i I
October	moist		1.3-2.5-4.1	none	i	rare	very brief	0.0-0.3-0.5
	wet	1.3-2.5-4.1	6.7-6.7-6.7		İ	1		
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	i	none	j	i
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I43A (continued)

Strathcona (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 			L - R - H
January	moist   wet		1.6-3.0-4.1   6.7-6.7-6.7	none		none		
February	wet   moist		6.7-6.7-6.7    2.5-3.3-4.9		1	l mone	l i	l I
rebruary			2.5-3.3-4.9   6.7-6.7-6.7			none		
March			0.7-0.7-0.7   1.6-2.1-4.1		I I	l none		l I
March	moist   wet		1.0-2.1-4.1   6.7-6.7-6.7			i none		 
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5			occasional	   brief	  0.0-0.3-0.
APILI	wet		6.7-6.7-6.7			l	Dilei	0 • 0 = 0 • 5 = 0 • ·
May	moist		0.5-0.8-3.3		i	loccasional	  verv brief	  0.0-0.3-0.
2	wet		6.7-6.7-6.7		İ			
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		i	i	1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	i	none	i	i
_	wet	1.6-3.3-4.9	6.7-6.7-6.7		į	i	İ	İ
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none	i	none	j	i
	wet	2.5-4.1-5.7	6.7-6.7-6.7		İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		i
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
						.		

Strathcona, depressional (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H		İ	İ	İ	L-R-H
			I		ļ	_[	.	ļ
January	   moist	0.0-0.0-0.0	  1.0-1.6-3.0	none	 	  occasional	long	  0.0-0.5-1.0
_	wet	1.0-1.6-3.0	6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	1.6-2.5-3.3	none	i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-3.3	6.7-6.7-6.7		İ	į	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.0	none	j	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7		İ	į	İ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.0-1.0	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.0	6.7-6.7-6.7		[			
May	moist	0.0-0.0-0.0	0.0-0.0-2.0	none		frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.2-0.8-2.5	none		occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.7-1.6-3.0	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
August			1.6-2.5-3.6	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		ļ			
September			1.0-1.6-3.0	none		rare	brief	0.0-0.3-0.5
			6.7-6.7-6.7		!			!
October			0.7-1.3-2.6	none	ļ	occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7		!		!	!
November			0.3-0.8-1.6	none	ļ	occasional	long	0.0-0.5-1.0
_			6.7-6.7-6.7					
December			0.7-1.3-2.3	none	ļ	occasional	long	0.0-0.5-1.0
į	wet	0.7-1.3-2.3	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I43A (continued)

Foxhome (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
	]	 	 			 	 	 
January	moist		4.8-5.4-6.7	none		none		
	wet		6.7-6.7-6.7		ļ	!	!	!
February	moist		5.2-5.7-6.7	none	ļ	none	!	!
	wet		6.7-6.7-6.7		!	!	!	!
March	moist		3.3-4.6-6.7	none	ļ	none	ļ	ļ
	wet		6.7-6.7-6.7		!	!	!	!
April	moist		1.3-2.5-4.9	none		none	ļ	ļ
	wet		6.7-6.7-6.7					
May	moist		2.0-3.0-5.6	none		none		ļ
_	wet		6.7-6.7-6.7				!	ļ
June	dry moist		0.0-0.0-0.5   2.6-3.6-6.2	none		none		ļ
	wet		2.0-3.0-6.2     6.7-6.7-6.7		l I	l I	 	l I
July	wet   dry		10.0-0.0-0.7	none	l I	l I none	 	l I
ouly	dry   moist		3.9-5.4-6.7	none	 	l none		 
	wet		6.7-6.7-6.7		 	<u> </u>	 	¦
August	dry		0.0-0.0-1.0	none	! !	l none	! !	! !
nagabe	moist		5.4-6.7-6.7	110110	 	110110	! 	i
	wet		6.7-6.7-6.7		i I	i	i	i
September	dry		0.0-0.0-0.3	none	i	l none	i	i
	moist		4.1-4.6-6.7		İ		i	i
	wet		6.7-6.7-6.7		İ	i	i	i
October	moist	0.0-0.0-0.0	3.6-3.9-6.7	none	i	none	i	i
	wet	3.6-3.9-6.7	6.7-6.7-6.7		İ	İ	į	İ
November	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	i	none	j	i
	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none	j	i
	wet	3.9-4.6-6.2	6.7-6.7-6.7					
		l	į į		I	I	I	I

Karlsruhe (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  2.6-3.3-6.2	none	 	none	 	 
	wet	2.6-3.3-6.2	6.7-6.7-6.7			ĺ	ĺ	ĺ
February	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
March	moist	0.0-0.0-0.0	2.6-3.3-5.9	none		none		
	wet	2.6-3.3-5.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none		none		
			6.7-6.7-6.7					
May			1.8-2.5-4.1	none		none		
			6.7-6.7-6.7					
June			2.5-3.0-4.9	none		none		
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.3	none		none		ļ
	moist		3.0-3.6-6.7					
			6.7-6.7-6.7			!	!	!
August			0.0-0.0-0.5	none		none	!	!
			4.1-6.7-6.7			!	!	!
_	wet		6.7-6.7-6.7			!	!	!
September	dry		0.0-0.0-0.3	none		none	!	!
	moist		2.6-4.1-6.7			!	!	!
_	wet		6.7-6.7-6.7			!	!	!
October	moist		3.0-4.3-5.7	none		none		
_			6.7-6.7-6.7			!	!	!
November			2.0-2.5-4.9	none		none		
_	wet		6.7-6.7-6.7			!	!	!
December	moist		2.3-3.0-5.6	none	ļ	none	!	!
	wet	2.3-3.0-5.6	6.7-6.7-6.7		l			

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I43A (continued)

Grimstad (1 percent of the map unit)

Month	  Moisture	Top	Bottom	   Flooding	   Flooding	Ponding	   Ponding	Ponding
11011011	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H	=====================================				L - R - H
	i					İ	İ	
_						!		!
January	moist   wet		2.5-3.8-5.7 6.7-6.7-6.7	none		none		!
February	wet   moist		3.3-4.6-6.7	l none	l I	l none	 	l I
rebruary	wet		6.7-6.7-6.7	l Hone		i none		
March	moist		2.5-3.0-5.7	l none	! !	l none	¦	l
Mai CII	wet		6.7-6.7-6.7		 	l none	 	
April	moist		0.8-1.5-3.3	l .	 	l none	¦	l
p	wet		6.7-6.7-6.7			110110	¦	i
May	moist		1.1-1.8-4.1		 	none	i	i
	wet		6.7-6.7-6.7		i		i	i
June	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none	i	i
	wet	1.6-3.3-4.9	6.7-6.7-6.7		İ	İ	İ	i
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none	i	none	i	i
	moist	0.0-0.0-0.3	2.5-5.7-6.2	İ	İ	İ	İ	İ
	wet	2.5-5.7-6.2	6.7-6.7-6.7	İ	ĺ	Ì	ĺ	ĺ
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none	j	i
	moist	0.0-0.0-0.5	6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		2.5-3.8-6.7					
	wet		6.7-6.7-6.7					
October	moist		2.0-3.0-5.6	none		none		
	wet		6.7-6.7-6.7			ļ	ļ	
November	moist		1.6-2.5-4.9			none		
	wet		6.7-6.7-6.7			ļ	ļ	ļ
December	moist		2.0-3.3-5.4	none	ļ	none	!	!
	wet	2.0-3.3-5.4	6.7-6.7-6.7		!	ļ	ļ.	!
	l					l	l	

I44A Newfolden loam, 0 to 3 percent slopes

Newfolden (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
							<del></del>	
January	moist		4.1-5.4-6.7	none		none	ļ	ļ
_ ,	wet		6.7-6.7-6.7					
February	moist		4.9-5.9-6.7	none		none		
36	wet   moist		6.7-6.7-6.7				!	
March	moist   wet		3.3-4.9-6.7   6.7-6.7-6.7	none		none		
April	wet   moist		0.7-6.7-6.7   1.6-2.5-4.1	none		l mana	l I	l I
APLII	wet		1.0-2.3-4.1   6.7-6.7-6.7	none		none	 	
May	moist		2.1-2.8-4.9	none		l none	! !	
нау	wet		6.7-6.7-6.7	none		i none		
June	moist		2.6-3.1-5.7	none		l none	! !	 
ounc	wet		6.7-6.7-6.7	110110		110110	¦	
July	dry		0.0-0.0-0.3	none		none	i	i
	moist		3.3-5.7-6.7				i	İ
	wet	3.3-5.7-6.7	6.7-6.7-6.7			i	i	i
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none	i	i
	moist	0.0-0.0-0.5	4.9-6.7-6.7			i	İ	İ
	wet	4.9-6.7-6.7	6.7-6.7-6.7			İ	İ	İ
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none	j	i
	moist	0.0-0.0-0.3	3.6-4.9-6.7			İ	ĺ	ĺ
	wet	3.6-4.9-6.7	6.7-6.7-6.7			İ	ĺ	
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none		
	wet		6.7-6.7-6.7					
November	moist		2.3-3.3-4.9	none		none		
	wet		6.7-6.7-6.7					
December	moist		3.3-4.6-5.7	none		none		
	wet	3.3-4.6-5.7	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I44A (continued)

Smiley (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
	<u> </u>				ļ	ļ	ļ	
January			1.6-3.0-4.1			none		
			6.7-6.7-6.7					
February			2.5-3.3-4.9			none		
			6.7-6.7-6.7					
March			1.3-2.1-3.3			none		
			6.7-6.7-6.7					
April			0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May			0.3-0.8-3.3		ļ	occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7		!			
June			0.7-1.3-4.1			occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
July		•	1.6-3.0-4.9			none		
			6.7-6.7-6.7					
August			2.5-3.8-5.7			none		
			6.7-6.7-6.7					
September			2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
October			1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
	wet	1.3-1.6-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7		1		I	

Boash (8 percent of the map unit)

	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
J	status	depth	depth	frequency	duration	frequency	duration	depth
ļ		L - R - H	L-R-H			1		L-R-H
	 		 		I	. I	————————————————————————————————————	 
January	moist	0.0-0.0-0.0	0.8-2.1-4.1	none	j	none	j	j
j	wet	0.8-2.1-4.1	6.7-6.7-6.7		ĺ	İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none		
	wet	1.6-2.5-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none		
ļ	wet	0.3-1.3-3.3	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
J			6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
ļ			6.7-6.7-6.7					
June			0.8-1.3-3.3			occasional	very brief	0.0-0.3-0.5
ļ			6.7-6.7-6.7					
July			1.3-2.1-4.1			rare	very brief	0.0-0.2-0.3
I			6.7-6.7-6.7					
August			1.6-3.0-4.9			rare	very brief	0.0-0.2-0.3
			6.7-6.7-6.7			1		
September			1.3-2.5-4.1			rare	very brief	0.0-0.2-0.3
!			6.7-6.7-6.7		!			!
October			0.8-1.6-3.3		!	occasional	very brief	0.0-0.2-0.3
_			6.7-6.7-6.7					
November			0.5-1.3-2.5		!	occasional	brief	0.0-0.3-0.5
_			6.7-6.7-6.7			!		<u> </u>
December			0.8-1.6-3.3		!	none	ļ	!
!	wet	0.8-1.6-3.3	6.7-6.7-6.7		!	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I44A (continued)

Linveldt (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H				[	L - R - H
January	moist	0.0-0.0-0.0	4.8-5.4-6.7	none		none		
	wet		6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	5.2-5.7-6.7	none		none		
	wet	5.2-5.7-6.7	6.7-6.7-6.7					
March	moist		3.3-4.6-6.7			none		
	wet		6.7-6.7-6.7					
April	moist		1.3-2.5-4.9	none		none		
	wet		6.7-6.7-6.7					
May	moist		2.0-3.0-5.6			none		
	wet		6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	2.6-3.6-6.2					
	wet	2.6-3.6-6.2	6.7-6.7-6.7					
July	dry		0.0-0.0-0.7			none		
	moist		3.9-5.4-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		
	moist		5.4-6.7-6.7					
	wet	5.4-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.6-6.7					
	wet	4.1-4.6-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.6-3.9-6.7	none		none		
	wet	3.6-3.9-6.7	6.7-6.7-6.7					
November	moist		2.5-3.3-5.7			none		
	wet		6.7-6.7-6.7			[	[	
December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none		
	wet	3.9-4.6-6.2	6.7-6.7-6.7			[		
	l				l	I	1	I

Hapludolls (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		] 	 	 	L - R - н 
January	moist	    0 0-0 0-0 0	    6.7-6.7-6.7	none		none		
February	moist		6.7-6.7-6.7	none	 	none none	l	 
March	moist		5.7-6.7-6.7	rare	brief	none none	 	 
March	wet		6.7-6.7-6.7	Tare	l prier	l none	 	 
April	moist	0.0-0.0-0.0	4.9-6.7-6.7	rare	   brief	none		 
	wet		6.7-6.7-6.7					
May	moist		5.7-6.7-6.7	rare	brief	none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	rare	very brief	none		
	moist		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5		very brief	none		
	moist	•	6.7-6.7-6.7					
August	dry		0.0-0.0-0.5	-	very brief	none		
	moist	•	6.7-6.7-6.7					
September	dry		0.0-0.0-0.5	rare	very brief	none		
	moist		6.7-6.7-6.7					
October	moist		6.7-6.7-6.7	rare	brief	none		
November	moist	•	6.7-6.7-6.7	rare	brief	none		
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I45A Northwood muck, 0 to 1 percent slopes

Northwood (75 percent of the map unit)

			I .		 I	1		
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 		 	L - R - H 
January	moist	    0.0-0.0-0.0	0.8-1.6-3.3	none	   	  occasional	long	0.0-0.5-1.0
January	wet		6.7-6.7-6.7		i İ		l	0.0 0.5 1.
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	i	occasional	long	0.0-0.5-1.
			6.7-6.7-6.7					
March	moist   wet		0.0-0.0-2.5			occasional	long	0.0-0.5-1.
April	wet   moist		6.7-6.7-6.7   0.0-0.0-0.8		l 	   frequent	   long	  0.0-0.5-1.0
-	wet		6.7-6.7-6.7		İ	1		İ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none	j	frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist		0.0-0.5-1.6			frequent	brief	0.0-0.5-1.
July	wet   moist		6.7-6.7-6.7   0.2-0.8-2.5		l I	   rare	  verv brief	  0.0-0.3-0.
2	wet		6.7-6.7-6.7		i			
August	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	i	rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					[
September	!		0.5-1.3-3.0		ļ	occasional	brief	0.0-0.3-0.
N 1	wet		6.7-6.7-6.7			1	1 1 1 1 1 1	
October	moist   wet		0.3-0.8-2.5   6.7-6.7-6.7		 	occasional	brief	0.0-0.5-1.
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.5-1.
	wet	0.0-0.3-1.6	6.7-6.7-6.7		İ	İ	İ	ĺ
December	moist	•	0.5-1.3-2.5			occasional	long	0.0-0.5-1.
	wet	0.5-1.3-2.5	6.7-6.7-6.7					
	l	l	l		l	-	.	l

Hamre (10 percent of the map unit)

		I				1	I	l
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 .	L - R - H 	L - R - H   		 	 .	 	L - R - H 
January	   moist	•	  0.8-1.6-3.3		 	  occasional	l long	  0.0-0.5-1.0
	wet		6.7-6.7-6.7				!	
February	moist		1.6-2.5-4.1			occasional	long	0.0-0.5-1.0
March	wet   moist   wet	0.0-0.0-0.0	6.7-6.7-6.7   0.0-0.0-2.5   6.7-6.7-6.7	none	 	  occasional	   long	  0.0-0.5-1.( 
April	moist   wet	0.0-0.0-0.0	0.7-0.7-0.7   0.0-0.0-0.8   6.7-6.7-6.7	none	   	   frequent 	   long 	  0.0-0.5-1.( 
May	moist	0.0-0.0-0.0	0.0-0.0-1.3   6.7-6.7-6.7	none	 	frequent	l   long	  0.0-0.5-1.( 
June	moist	0.0-0.0-0.0	0.0-0.5-1.6   6.7-6.7-6.7	none	   	frequent	   brief 	  0.0-0.5-1.( 
July	moist	0.0-0.0-0.0	0.2-0.8-2.5   6.7-6.7-6.7	none	   	rare	very brief	  0.0-0.3-0.5 
August	moist	0.0-0.0-0.0	0.8-1.6-3.3  6.7-6.7-6.7	none	 I	rare	very brief	0.0-0.3-0.5
September	moist   wet		  0.5-1.3-3.0   6.7-6.7-6.7		 I	occasional	brief	0.0-0.3-0.5
October	moist	0.0-0.0-0.0	0.3-0.8-2.5 6.7-6.7-6.7	none	 I	occasional	   brief 	  0.0-0.5-1.0 
November	moist	0.0-0.0-0.0	0.0-0.3-1.6   6.7-6.7-6.7	none	   	occasional	l   long 	  0.0-0.5-1.( 
December	moist	0.0-0.0-0.0	0.5-1.3-2.5   6.7-6.7-6.7	none	 	occasional	l   long	  0.0-0.5-1.( 
	1	0.5 1.5-2.5	0.7   0.7   		 		! !	I I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I45A (continued)

Berner (5 percent of the map unit)

Month	  Moisture	Top	Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	j i	L-R-H	L-R-H			į	İ	L-R-H
	İ					İ	İ	İ
January	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	long	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May		0.0-0.0-0.0				frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June		0.0-0.0-0.0				occasional	brief	0.0-0.5-1.0
		0.0-0.0-1.6						
July		0.0-0.0-0.0				rare	very brief	0.0-0.3-0.5
		0.2-0.8-2.5						
August		0.0-0.0-0.0				rare	very brief	0.0-0.3-0.5
		0.8-1.6-3.3						
September		0.0-0.0-0.0				rare	brief	0.0-0.3-0.5
		0.3-1.1-3.0						
October		0.0-0.0-0.0				occasional	brief	0.0-0.3-0.5
		0.2-0.5-2.5						
November		0.0-0.0-0.0				occasional	long	0.0-0.3-0.5
		0.0-0.3-1.6						
December		0.0-0.0-0.0				occasional	long	0.0-0.3-0.5
	wet	0.5-0.8-2.5	6.7-6.7-6.7					
	l						l	

Kratka (5 percent of the map unit)

	I	I	I		ı	ı	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		
Uanuary	wet		1.0-3.0-4.1   6.7-6.7-6.7		 	l none		 
February	moist		2.5-3.3-4.9		 	l none		 
r cor dar y	wet		6.7-6.7-6.7		i	110110	i	i
March	moist		11.6-2.1-4.1		i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		į	İ	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		[			
July	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	!		!
November	moist		0.8-1.6-3.3		!	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		1.3-2.1-3.8	none	!	none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!		!	!
	l					-l	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I45A (continued)

Strandquist (3 percent of the map unit)

M 1 h			l Dath and			 	 	
Month	Moisture		Bottom	Flooding	Flooding duration	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	1	ь - к - н	ь-к-н		l I	 	 	ь - к - н
					 	l ————		
January	   moist	I   0 . 0 = 0 . 0 = 0 . 0	  1.6-3.0-4.1	l none	l 	l none	l I	l I
2	wet		6.7-6.7-6.7		! 		i	i I
February	moist		2.5-3.3-4.9			l none	i	
	wet		6.7-6.7-6.7		 		i	İ
March	moist		1.6-2.1-4.1			none	i	
	wet		6.7-6.7-6.7		! 	İ	i	
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.5
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		İ	İ	į	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	İ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist		0.8-1.6-3.3			none		
	wet		6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	l					l	l	

Roliss (2 percent of the map unit)

Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H		j	İ	İ	L-R-H
	ļ	ļ	ļ		ļ	ļ	ļ	ļ
January	   moist		  1.6-3.0-4.1	none		none	 	
January	wet		6.7-6.7-6.7		 	l none		 
February	wet   moist		2.5-3.3-4.9		l I	l none	l 	l I
rebruary	wet		6.7-6.7-6.7		 	l none		 
March	moist		11.3-2.1-3.3		 	l none	 	! !
March	wet		6.7-6.7-6.7		 	l none	 	 
April	moist		0.0-0.5-2.5		 	  occasional	   brief	ı  0.0-0.3-0.5
	wet		6.7-6.7-6.7		i			 
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
_	wet	0.3-0.8-3.3	6.7-6.7-6.7		İ	į	i	İ
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none	j	occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7			1		
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7			[	[	
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7			[	1	
September	moist	0.0-0.0-0.0	2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
	wet	2.0-3.3-4.9	6.7-6.7-6.7					
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	1				I			

## Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I46A Pits, gravel and sand

Pits (85 percent of the map unit) (not applicable)

Udipsamments (10 percent of the map unit)

							ļ .	ļ .
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
January	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
February	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
May	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
June	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.3	none		none		
	moist	0.0-0.0-1.3	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					[
October	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
November	moist		6.7-6.7-6.7	none		none		
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
	1				l	l	l	I

Radium (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H		 	 	 	L - R - I
					ļ		ļ	
January			4.9-5.4-6.7	none		none		
			6.7-6.7-6.7		 			
February			5.7-6.2-6.7   6.7-6.7-6.7	none		none		
March			3.3-4.1-6.7		 		 	l I
march			3.3-4.1-6.7   6.7-6.7-6.7	none		none		
April			2.1-3.0-4.9	none	 	   none	I I	l I
APITI			6.7-6.7-6.7	none	 	I Hone	 	 
May			2.6-3.8-5.7	none	 	l none	l I	! !
ady			6.7-6.7-6.7		 	l none	I	 
June			0.0-0.0-0.3	none	! !	none	! 	! 
			3.3-4.4-6.7		İ		i I	İ
			6.7-6.7-6.7		i	i	i	i
July			0.0-0.0-0.7		i	none	i	i
-	moist	0.0-0.0-0.7	6.7-6.7-6.7		i	i	İ	i
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none	i	none	i	i
	moist	0.0-0.0-1.0	6.7-6.7-6.7		İ	İ	İ	İ
September	dry	0.0-0.0-0.0	0.0-0.0-0.7	none	j	none	i	i
	moist	0.0-0.0-0.7	4.1-4.9-6.7		Ì	İ	ĺ	ĺ
	wet	4.1-4.9-6.7	6.7-6.7-6.7					l
October	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7			1	1	1

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I46A (continued)

Maddock (1 percent of the map unit)

Month	  Moisture	Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	scacus	L-R-H	depth	rrequency	duracion	lrequency	ddracion	depth   L - R - H
		H - K - H	1 - 1 - 1		 	I I	I I	
January	moist	0.0-0.0-0.0	6.7-6.7-6.7	none	i	none	i	i
February	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
May	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
June	dry	0.0-0.0-0.0	0.0-0.2-0.3	none		none		
	moist	0.0-0.2-0.3	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.3-0.7	none		none		
	moist	0.0-0.3-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.7-1.0	none		none		
	moist	0.0-0.7-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.5-1.0	none		none		
	moist	0.0-0.5-1.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
November	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
	l	l	l		l	l	l	

Marquette (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H		<u> </u>		<u> </u>	L - R - F
	.		 			-	 	 
anuary	moist	0.0-0.0-0.0	  6.7-6.7-6.7	none	i	none		i
ebruary	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
arch	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
pril	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
lay	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
une	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
uly	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
ugust	dry	0.0-0.0-0.0	0.0-0.0-1.1	none		none		
	moist	0.0-0.0-1.1	6.7-6.7-6.7					
eptember	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
ctober	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
ovember	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
ecember	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
	moist	0.0-0.0-0.0	6.7-6.7-6.7			1	l	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I46A (continued)

Sandberg (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L-R-H
			 		l		 	
January	moist	0.0-0.0-0.0	6.7-6.7-6.7	none	i	none	j	i
February	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
May	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist		6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
November	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		

\*

I47A Poppleton fine sand, 0 to 2 percent slopes

Poppleton (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - I 
January	moist	0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	   	i I
	wet	4.6-5.4-6.7	6.7-6.7-6.7		İ	İ	İ	İ
ebruary	moist	0.0-0.0-0.0	5.2-6.2-6.7	none		none	i	i
	wet	5.2-6.2-6.7	6.7-6.7-6.7		İ	Ì	ĺ	ĺ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		j
	wet	3.3-4.1-6.7	6.7-6.7-6.7					1
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none		
	wet	2.1-2.5-6.7	6.7-6.7-6.7					1
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7					[
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					[
	wet	2.6-3.3-6.7	6.7-6.7-6.7					[
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					[
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September			0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.9-6.7					
			6.7-6.7-6.7					
October			3.3-4.6-6.7	none		none		
			6.7-6.7-6.7					
Jovember			2.5-4.1-5.7	none		none		
			6.7-6.7-6.7					
December			4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I47A (continued)

Flaming (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	i	 
-	wet	4.6-5.4-6.7	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none	i	none	j	i
	wet	5.2-6.2-6.7	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	
	wet	3.3-4.1-6.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none		
	wet	2.1-2.5-6.7	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry		0.0-0.0-1.0	none		none		
	moist		6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist		2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7					
December	moist		4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7				Į.	

Garborg (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			İ	İ	L-R-H
January	moist		2.6-3.3-5.9	none		none		
	wet		6.7-6.7-6.7			ļ	!	
February	moist		3.3-4.1-6.7	none		none		
	wet		6.7-6.7-6.7					
March			2.6-3.3-5.7	none		none		
			6.7-6.7-6.7					
April			1.1-1.5-3.3	none		none		
			6.7-6.7-6.7					
May	moist		1.5-1.8-4.1	none		none		
			6.7-6.7-6.7					
June	-		0.0-0.0-0.3	none		none		
			2.0-2.5-4.9					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	2.6-4.9-6.2					
	wet	2.6-4.9-6.2	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-4.9-6.7					
	wet	2.6-4.9-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	2.3-3.0-5.7	none		none		
	wet	2.3-3.0-5.7	6.7-6.7-6.7			İ	ĺ	ĺ
November	moist	0.0-0.0-0.0	2.0-2.5-4.9	none		none	i	i
	wet	2.0-2.5-4.9	6.7-6.7-6.7			1	l	
December	moist	0.0-0.0-0.0	2.3-3.0-5.2	none		none	j	
	wet	2.3-3.0-5.2	6.7-6.7-6.7		İ	İ	İ	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I47A (continued)

Hamar (3 percent of the map unit)

Month	  Moisture	l Top	Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H				İ	L - R - H
	İ	İ	İi		i 	.i	i	İ
								l
January	moist		2.0-2.5-4.9			none		
			6.7-6.7-6.7					
February			2.5-3.3-5.7			none		
			6.7-6.7-6.7					
March			1.6-2.1-4.1			none		
			6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.
	wet	0.5-1.3-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.9-5.7	none		none		
	wet	2.5-4.9-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.3-3.0-4.9	none		none		
	wet	1.3-3.0-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.0-2.1-4.1	none		rare	very brief	0.0-0.3-0.
	wet	1.0-2.1-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					l
December	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7			1	1	I
	İ		İ		İ	İ	İ	İ

Radium (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H		İ	İ	İ	L-R-H
	İ		İ					
	ĺ	ĺ	İ		ĺ	ĺ	ĺ	ĺ
January	moist	0.0-0.0-0.0	4.9-5.4-6.7	none		none		
	wet	4.9-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	5.7-6.2-6.7	none		none		
	wet	5.7-6.2-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	2.1-3.0-4.9	none		none		
	wet	2.1-3.0-4.9	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.6-3.8-5.7	none		none		
	wet	2.6-3.8-5.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	3.3-4.4-6.7					
	wet	3.3-4.4-6.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	4.1-4.9-6.7					
	wet	4.1-4.9-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7				l	
	I				l	l	I	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I47A (continued)

Ulen (2 percent of the map unit)

Month	  Moisture	I Top	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	i	L-R-H	L - R - н		İ	i	i	L-R-H
	i	i	ii		i	i	i	i
	İ	İ	j j		İ	İ	İ	İ
January	moist	0.0-0.0-0.0	2.6-3.3-5.9	none		none	i	
	wet	2.6-3.3-5.9	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	2.6-3.3-5.7	none		none		
	wet	2.6-3.3-5.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none		none		
	wet	1.5-2.0-3.3	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.0-2.5-4.1	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist	0.0-0.0-0.3	2.5-3.0-4.9					
	wet	2.5-3.0-4.9	6.7-6.7-6.7					
July	dry		0.0-0.0-0.5			none		
	moist	0.0-0.0-0.5	3.0-4.9-6.2					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.7	none		none		
	moist		6.7-6.7-6.7					
September			0.0-0.0-0.5			none		
	moist		2.6-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		2.3-3.0-5.7	none		none		
	wet		6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.0-2.5-4.9	none		none		
	wet	2.0-2.5-4.9	6.7-6.7-6.7					
December	moist		2.3-3.0-5.2	none		none		
	wet	2.3-3.0-5.2	6.7-6.7-6.7					
	İ	İ	İi		İ	İ	İ	İ

Maddock (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	1	L - R - H	L - R - H					L - R - H
	l		I			_		
	I							
January	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
ebruary	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
March	moist		6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
ſay	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	6.7-6.7-6.7					
July			0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
october	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
Tovember	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I48A Radium loamy sand, 0 to 3 percent slopes

Radium (75 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	    0.0-0.0-0.0	 	none	i I	none	j I	i I
	wet		6.7-6.7-6.7		İ	İ	i	İ
February	moist	0.0-0.0-0.0	5.7-6.2-6.7	none	i	none	i	i
	wet	5.7-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	2.1-3.0-4.9	none		none		
	wet	2.1-3.0-4.9	6.7-6.7-6.7			[		
May	moist	0.0-0.0-0.0	2.6-3.8-5.7	none		none		
	wet	2.6-3.8-5.7	6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist		3.3-4.4-6.7					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7			none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0		!	none	!	
	moist		6.7-6.7-6.7		!	!	!	
September		•	0.0-0.0-0.7			none	!	
	moist		4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7			none		
	wet		6.7-6.7-6.7					l
November	moist		2.5-4.1-5.7			none		
December	wet		6.7-6.7-6.7		 		1	l I
Jecember	moist		4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7 	6.7-6.7-6.7  		 	[ [	[ [	 
	I ————	l —————	I ————————————————————————————————————		l ———————		I ————	l ————

Sandberg (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H		[	[		L - R - H
January	moist		6.7-6.7-6.7	none		none		
February	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
May	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	6.7-6.7-6.7		[	[		
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7		[	[		
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7			[		
September	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
November	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I48A (continued)

Oylen (5 percent of the map unit)

		_			_, ,,			
Month	Moisture		Bottom	Flooding	Flooding   duration	Ponding	Ponding   duration	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H	l i	l i	 		L-R-H
January	moist	0.0-0.0-0.0	4.9-5.4-6.7	none	 	none	 	
_	wet	4.9-5.4-6.7	6.7-6.7-6.7	İ	İ	İ	İ	İ
February	moist	0.0-0.0-0.0	5.7-6.2-6.7	none	i	none	j	j
	wet	5.7-6.2-6.7	6.7-6.7-6.7	İ	İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none	i	none	i	j
	wet	3.3-4.1-6.7	6.7-6.7-6.7	İ	İ	İ	İ	İ
April	moist	0.0-0.0-0.0	2.1-3.0-4.9	none	i	none	i	j
	wet	2.1-3.0-4.9	6.7-6.7-6.7	İ	İ	İ	İ	İ
May	moist	0.0-0.0-0.0	2.6-3.8-5.7	none		none	j	j
	wet	2.6-3.8-5.7	6.7-6.7-6.7			İ	ĺ	ĺ
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		i
	moist	0.0-0.0-0.3	3.3-4.4-6.7		İ	İ	ĺ	ĺ
	wet	3.3-4.4-6.7	6.7-6.7-6.7			1	1	
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7		İ	İ	ĺ	ĺ
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7			1	1	
September	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	4.1-4.9-6.7					
	wet	4.1-4.9-6.7	6.7-6.7-6.7			1	1	
October	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none	i	
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none	i	
	wet	4.1-4.9-6.7	6.7-6.7-6.7					
	l		l				l	l

Flaming (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
j		L - R - H	L - R - н   		 	i I	 	L-к-н 
January	moist	0.0-0.0-0.0	 	none	   	none	   	   
	wet		6.7-6.7-6.7		İ	i	i	i
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none	i	none	i	i
į	wet	5.2-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		i
	wet	3.3-4.1-6.7	6.7-6.7-6.7					l
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none		
I	wet	2.1-2.5-6.7	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
I	wet	2.5-2.8-5.7	6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
			2.6-3.3-6.7					
I			6.7-6.7-6.7					
July			0.0-0.0-0.7	none		none		
ļ			6.7-6.7-6.7					
August	dry		0.0-0.0-1.0	none		none		ļ
ļ			6.7-6.7-6.7		!	!	!	!
September			0.0-0.0-0.3	none		none	ļ	!
ļ			4.1-4.9-6.7				!	!
!	wet		6.7-6.7-6.7					!
October	moist		3.3-4.6-6.7	none		none		
			6.7-6.7-6.7					
November			2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7					l '
December	moist   wet		4.1-4.9-6.7   6.7-6.7-6.7	none		none		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I48A (continued)

Garborg (3 percent of the map unit)

	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H				į i	L - R - H
January	moist		2.6-3.3-5.9	none		none	!	!
			6.7-6.7-6.7				!	!
February	moist		3.3-4.1-6.7	none		none	!	!
	wet		6.7-6.7-6.7					!
March	moist		2.6-3.3-5.7	none		none	!	!
	•		6.7-6.7-6.7					!
April	moist		1.1-1.5-3.3	none		none	!	!
			6.7-6.7-6.7					!
May	moist		1.5-1.8-4.1	none		none		
_	•		6.7-6.7-6.7					!
June			0.0-0.0-0.3	none		none		
	moist		2.0-2.5-4.9				!	!
_	wet		6.7-6.7-6.7				!	!
July	dry		0.0-0.0-0.5	none		none		
	moist		2.6-4.9-6.2				!	!
	•		6.7-6.7-6.7					!
August	dry		0.0-0.0-0.7	none		none		
	moist		6.7-6.7-6.7					!
September	dry		0.0-0.0-0.3	none		none		
	moist		2.6-4.9-6.7					!
			6.7-6.7-6.7					!
October	moist		2.3-3.0-5.7	none		none		
	wet		6.7-6.7-6.7					!
November	moist		2.0-2.5-4.9	none		none		ļ
_	wet		6.7-6.7-6.7				!	!
December	moist		2.3-3.0-5.2	none		none	!	!
	wet	2.3-3.0-5.2	6.7-6.7-6.7			1	[	ļ.

Hangaard (3 percent of the map unit)

	I							
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
	 					-  	· I	 
January	moist		2.0-3.0-4.9			none		
	wet	2.0-3.0-4.9	6.7-6.7-6.7					
February	moist		2.5-3.3-5.7			none		
	wet		6.7-6.7-6.7					
March	moist		1.6-2.5-4.1	none		none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.3-2.5			occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			ļ		
June	moist		1.0-1.6-2.5		ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	!	!	!
July	moist		1.6-2.5-4.9		ļ	none	ļ	ļ
	wet		6.7-6.7-6.7			ļ	!	!
August	moist		2.5-3.3-5.7		ļ	none	!	ļ
	wet		6.7-6.7-6.7			ļ	!	!
September			1.3-2.5-4.9			none		
	wet		6.7-6.7-6.7			!		
October	moist		1.0-2.1-4.1			none		
**	wet		6.7-6.7-6.7				!	
November	moist		0.8-1.6-3.3			none		
Do sombo	wet		6.7-6.7-6.7		1		1	l I
December	moist		1.6-2.1-4.1   6.7-6.7-6.7			none		
	wet	11.0-2.1-4.1	0 . / - 6 . 7 - 6 . 7		1	1	1	l I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I48A (continued)

Hamar (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L - R - H			ĺ	ĺ	L-R-H
							1	
January	moist		2.0-2.5-4.9			none		
	wet	2.0-2.5-4.9	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none		none		
	wet	2.5-3.3-5.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7				[	
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7				[	
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7				[	
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.9-5.7	none		none		
	wet	2.5-4.9-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.3-3.0-4.9	none		none		
	wet	1.3-3.0-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.0-2.1-4.1	none		rare	very brief	0.0-0.3-0.5
	wet	1.0-2.1-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7				1	
December	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		none		
	wet		6.7-6.7-6.7			l	I	
			1		1	I	1	I

Poppleton (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 -	 	L - R - F 
January	   moist	0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	i I	i I
-	wet	4.6-5.4-6.7	6.7-6.7-6.7		:	İ	i	i
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none	i	none	j	i
	wet	5.2-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none		
	wet	2.1-2.5-6.7	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
	moist		2.6-3.3-6.7					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0	none		none	!	!
	moist		6.7-6.7-6.7				!	!
September			0.0-0.0-0.3	none		none		
	moist		4.1-4.9-6.7					!
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7	none		none		ļ
*1	wet		6.7-6.7-6.7		 			ļ
November	moist		2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7		 		1	
December	moist   wet	4.1-4.9-6.7	4.1-4.9-6.7	none		none		i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I50A Reiner fine sandy loam, 0 to 3 percent slopes

Reiner (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H			İ	İ	L-R-H
		 	 		 	 	 	! 
January	moist		4.1-5.4-6.7	none	ļ	none	!	ļ
	wet		6.7-6.7-6.7		!	!	!	!
February	moist		4.9-5.9-6.7		ļ	none	!	!
_	wet		6.7-6.7-6.7		!	!	!	!
March	moist		3.3-4.9-6.7			none	ļ	
	wet		6.7-6.7-6.7					<u> </u>
April	moist		1.6-2.5-4.1	none		none		
			6.7-6.7-6.7					
May	moist		2.1-2.8-4.9			none		
_	wet		6.7-6.7-6.7			!	!	ļ
June	moist		2.6-3.1-5.7			none		ļ
T 1	wet   dry		6.7-6.7-6.7 0.0-0.0-0.3		 			
July	dry   moist		3.3-5.7-6.7		<del></del>	none		
			3.3-5.7-6.7   6.7-6.7-6.7		l i	1	 	
August	wet   dry		0.0-0.0-0.5		l 	l none	 	l I
August	moist		4.9-6.7-6.7		 	l none	 	 
	wet		6.7-6.7-6.7		 	¦	! !	! !
September			0.0-0.0-0.3		! !	l none	¦	¦
Бересшвег	moist		3.6-4.9-6.7		! 	1	<u> </u>	<u> </u>
	wet		6.7-6.7-6.7		! 	i	<u> </u>	:
October	moist		3.0-4.3-5.7		 	l none	i	i
	wet		6.7-6.7-6.7		i		i	i
November	moist		2.3-3.3-4.9		i	l none	i	i
	wet		6.7-6.7-6.7		i		i	i
December	moist		3.3-4.6-5.7			none	i	i
	wet		6.7-6.7-6.7		İ	i	i	i
					İ	i	i	i

Smiley (12 percent of the map unit)

depth	6.7-6.7-6.7 2.5-3.3-4.9 6.7-6.7-6.7 1.3-2.1-3.3 6.7-6.7-6.7 0.0-0.5-2.5 6.7-6.7-6.7 0.3-0.8-3.3 6.7-6.7-6.7	none none none	duration 	frequency	duration	į
	1.6-3.0-4.1 6.7-6.7-6.7 2.5-3.3-4.9 6.7-6.7-6.7 1.3-2.1-3.3 6.7-6.7-6.7 0.0-0.5-2.5 6.7-6.7-6.7 0.3-0.8-3.3 6.7-6.7-6.7	none none none	   	none none none occasional	       brief 	         0.0-0.3-0.5
1.6-3.0-4.1     0.0-0.0-0.0     2.5-3.3-4.9     0.0-0.0-0.0     1.3-2.1-3.3     0.0-0.0-0.0     0.0-0.5-2.5     0.0-0.0-0.0     0.3-0.8-3.3	6.7-6.7-6.7 2.5-3.3-4.9 6.7-6.7-6.7 1.3-2.1-3.3 6.7-6.7-6.7 0.0-0.5-2.5 6.7-6.7-6.7 0.3-0.8-3.3 6.7-6.7-6.7	none none none	   	none none none occasional	       brief 	  0.0-0.3-0.5 
1.6-3.0-4.1     0.0-0.0-0.0     2.5-3.3-4.9     0.0-0.0-0.0     1.3-2.1-3.3     0.0-0.0-0.0     0.0-0.5-2.5     0.0-0.0-0.0     0.3-0.8-3.3	6.7-6.7-6.7 2.5-3.3-4.9 6.7-6.7-6.7 1.3-2.1-3.3 6.7-6.7-6.7 0.0-0.5-2.5 6.7-6.7-6.7 0.3-0.8-3.3 6.7-6.7-6.7	none none none	   	none none none occasional	       brief 	  0.0-0.3-0.5 
0.0-0.0-0.0    2.5-3.3-4.9    0.0-0.0-0.0    1.3-2.1-3.3    0.0-0.0-0.0    0.0-0.5-2.5    0.0-0.0-0.0    0.3-0.8-3.3	2.5-3.3-4.9 6.7-6.7-6.7 1.3-2.1-3.3 6.7-6.7-6.7 0.0-0.5-2.5 6.7-6.7-6.7 0.3-0.8-3.3 6.7-6.7-6.7	none none none	   	none	       brief 	  0.0-0.3-0.5 
0.0-0.0-0.0     1.3-2.1-3.3     0.0-0.0-0.0     0.0-0.5-2.5     0.0-0.0-0.0     0.3-0.8-3.3	1.3-2.1-3.3 6.7-6.7-6.7 0.0-0.5-2.5 6.7-6.7-6.7 0.3-0.8-3.3 6.7-6.7-6.7	none none none	 	  occasional	     brief 	  0.0-0.3-0.5 
1.3-2.1-3.3   0.0-0.0-0.0   0.0-0.5-2.5   0.0-0.0-0.0   0.3-0.8-3.3	6.7-6.7-6.7 0.0-0.5-2.5 6.7-6.7-6.7 0.3-0.8-3.3 6.7-6.7-6.7	none	 	  occasional	     brief 	  0.0-0.3-0.5 
0.0-0.0-0.0   0.0-0.5-2.5   0.0-0.0-0.0   0.3-0.8-3.3	0.0-0.5-2.5 6.7-6.7-6.7 0.3-0.8-3.3 6.7-6.7-6.7	none	     	j		į
0.0-0.5-2.5  0.0-0.0-0.0   0.3-0.8-3.3	6.7-6.7-6.7  0.3-0.8-3.3  6.7-6.7-6.7	none	     	j		0.0-0.3-0.5    0.0-0.3-0.5
0.0-0.0-0.0	0.3-0.8-3.3  6.7-6.7-6.7	none	   	  occasional	   brief 	  0.0-0.3-0.5 
0.3-0.8-3.3	6.7-6.7-6.7		 	occasional	brief	0.0-0.3-0.5
					1	1
0.0-0.0-0.0	0.7-1.3-4.1			•	1	1
				occasional	very brief	0.0-0.3-0.5
0.7-1.3-4.1						
0.0-0.0-0.0				none		
1.6-3.0-4.9			!	ļ	!	!
0.0-0.0-0.0			ļ	none	ļ	!
				ļ		
				rare	very brief	0.0-0.3-0.5
				ļ		
				rare	very brier	10.0-0.3-0.5
			1			  0.0-0.3-0.5
				loccasional	l prier	10.0-0.3-0.5
			I I	l none	I I	I I
10.0-0.0-0.01		i none	1	l mone		- <b></b>
	0.0-0.0-0.0   2.0-3.3-4.9   0.0-0.0-0.0   1.3-1.6-4.1   0.0-0.0-0.0   0.8-1.3-3.3   0.0-0.0-0.0	0.0-0.0-0.0   2.0-3.3-4.9   2.0-3.3-4.9   6.7-6.7-6.7   0.0-0.0-0.0   1.3-1.6-4.1   1.3-1.6-4.1   6.7-6.7-6.7   0.0-0.0-0.0   0.8-1.3-3.3   0.8-1.3-3.3   6.7-6.7-6.7   0.0-0.0-0.0   1.3-2.1-3.8	2.5-3.8-5.7   6.7-6.7-6.7	0.0-0.0-0.0   2.0-3.3-4.9   none	0.0-0.0-0.0   2.0-3.3-4.9   none	0.0-0.0-0.0   2.0-3.3-4.9   none

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I50A (continued)

Reiner, very cobbly (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
January	moist   wet		4.1-5.4-6.7   6.7-6.7-6.7	none		none	 	 
February	moist		4.9-5.9-6.7	none		none	 	
	wet	4.9-5.9-6.7	6.7-6.7-6.7			ĺ	ĺ	ĺ
March	:		3.3-4.9-6.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.6-2.5-4.1	none		none	ļ	
			6.7-6.7-6.7					
May	moist		2.1-2.8-4.9	none		none		
_			6.7-6.7-6.7					l
June			2.6-3.1-5.7   6.7-6.7-6.7	none		none		
July			0.7-6.7-6.7   0.0-0.0-0.3	none	 	   none	l I	l I –––
buly	moist		3.3-5.7-6.7	none		l Hone	 	 
	wet		6.7-6.7-6.7				! 	 
August	dry		0.0-0.0-0.5	none		none	i	i
5	moist		4.9-6.7-6.7				i	i
	wet	4.9-6.7-6.7	6.7-6.7-6.7			i	İ	İ
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none	i	i
	moist	0.0-0.0-0.3	3.6-4.9-6.7			İ	İ	İ
	wet	3.6-4.9-6.7	6.7-6.7-6.7			İ	ĺ	ĺ
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none		
	wet	3.0-4.3-5.7	6.7-6.7-6.7					
November	moist		2.3-3.3-4.9	none		none		
			6.7-6.7-6.7					
December	moist		3.3-4.6-5.7	none		none	ļ	
	wet	3.3-4.6-5.7	6.7-6.7-6.7					

Linveldt (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
j	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L - R - H	L - R - H				j 	L-R-H
January	moist	0.0-0.0-0.0	4.8-5.4-6.7	none		none	j 	j 
	wet	4.8-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	5.2-5.7-6.7	none		none		
	wet	5.2-5.7-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
I	wet	3.3-4.6-6.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.3-2.5-4.9	none		none		
	wet	1.3-2.5-4.9	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.0-3.0-5.6	none		none		
	wet	2.0-3.0-5.6	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	2.6-3.6-6.2					
	wet		6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7						
	wet	3.9-5.4-6.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	5.4-6.7-6.7					
	wet	5.4-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.6-6.7					
	wet	4.1-4.6-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.6-3.9-6.7	none		none		
	wet	3.6-3.9-6.7	6.7-6.7-6.7					
November	moist		2.5-3.3-5.7	none		none		
	wet	2.5-3.3-5.7	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none		
	wet	3.9-4.6-6.2	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I50A (continued)

Eckvoll (3 percent of the map unit)

							I	I
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H		į	į	ļ	L - R - E
		 			l			 
January	moist		4.6-5.4-6.7		i	none	i	i
	wet		6.7-6.7-6.7		ļ	ļ	ļ	
February	moist		4.9-5.7-6.7			none		
	wet		6.7-6.7-6.7					
March	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		2.1-2.5-4.6			none		
	wet		6.7-6.7-6.7					
May	moist		2.6-3.1-5.2			none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist		2.6-3.8-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5	none		none		
	moist		3.8-4.9-6.7					
	wet	3.8-4.9-6.7	6.7-6.7-6.7					
August	dry		0.0-0.0-0.8			none		
	moist	0.0-0.0-0.8	5.2-6.7-6.7					
	wet	5.2-6.7-6.7	6.7-6.7-6.7					
September	dry		0.0-0.0-0.3			none		
	moist		3.8-4.1-6.7					
	wet	3.8-4.1-6.7	6.7-6.7-6.7					
ctober	moist	0.0-0.0-0.0	3.3-3.8-6.7	none		none		
	wet	3.3-3.8-6.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.5-3.3-5.6	none		none		
	wet	2.5-3.3-5.6	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	3.8-4.1-6.2	none		none	j	
	wet	3.8-4.1-6.2	6.7-6.7-6.7		ļ	ļ	ļ	
	l				l			

Kratka (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
İ		L - R - H	L - R - H   		   	İ	İ I	L - R - H 
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none	   	none		i i
	wet	1.6-3.0-4.1	6.7-6.7-6.7		<u>.</u>	į	i	i
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	j
1	wet	2.5-3.3-4.9	6.7-6.7-6.7					1
March			1.6-2.1-4.1	none		none		
			6.7-6.7-6.7					
April			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7				!	
May			0.5-0.8-3.3			occasional	very brief	0.0-0.3-0.
		0.5-0.8-3.3	6.7-6.7-6.7				1	
June			0.8-1.6-4.1   6.7-6.7-6.7	none	 	rare	very brier	0.0-0.1-0.
July			1.6-3.3-4.9	none	l 	none	¦	
July			6.7-6.7-6.7		! 	110110	i	;
August			2.5-4.1-5.7			none	i	
			6.7-6.7-6.7		! 		i	i
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none	j	j
j	wet	1.6-3.3-4.9	6.7-6.7-6.7		İ	j	İ	İ
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
J			6.7-6.7-6.7					
November			0.8-1.6-3.3			rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7			ļ	ļ	ļ
December			1.3-2.1-3.8	none	ļ	none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7		1			

# Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I51A Reiner loamy fine sand, 0 to 3 percent slopes

Reiner (65 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H		 	İ I	İ I	L - R - H
T	moist			none				
January	moist   wet		4.1-5.4-6.7   6.7-6.7-6.7	none	<del></del>	none		
February	wet   moist		4.9-5.9-6.7	none	l l	l none	 	! !
ebruary	wet		<del>1.</del> 3-3.3-6.7     6.7-6.7-6.7	none	 	l none		
March	moist		3.3-4.9-6.7	none	l 	l none	! !	! !
au on	wet		6.7-6.7-6.7	110110		110110	i i	i i
April	moist		1.6-2.5-4.1	none	 	l none	i	i
-	wet		6.7-6.7-6.7		İ	i	i	i
<b>lay</b>	moist		2.1-2.8-4.9	none		none	i	i
-	wet	2.1-2.8-4.9	6.7-6.7-6.7		İ	i	į	İ
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none	i	none	j	j
	moist	0.0-0.0-0.3	2.6-3.1-5.7		İ	İ	İ	İ
	wet	2.6-3.1-5.7	6.7-6.7-6.7		İ	İ	İ	į
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none	j	i
	moist	0.0-0.0-0.5	3.3-5.7-6.7			[		
	wet	3.3-5.7-6.7	6.7-6.7-6.7			[		
August	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist		4.9-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3	none		none		
	moist		3.6-4.9-6.7			ļ	ļ	
	wet		6.7-6.7-6.7					
ctober	moist		3.0-4.3-5.7	none		none		
	wet		6.7-6.7-6.7			ļ		
ovember	moist		2.3-3.3-4.9	none		none	!	!
	wet		6.7-6.7-6.7			ļ.	ļ.	!
ecember	moist		3.3-4.6-5.7	none		none	!	!
	wet	3.3-4.6-5.7	6.7-6.7-6.7			ļ	!	!

Smiley (9 percent of the map unit)

January   moist   wet   February   moist   wet   March   moist   wet   April   moist   wet   May   moist   wet   June   moist	L-R-H    1.6-3.0-4.:   0.0-0.0-0.    1.6-3.3-4.:   0.0-0.0-0.    1.3-2.1-3.:   0.0-0.0-0.:   0.0-0.5-2.:	depth L - R - H    L - R - H    1.6-3.0-4.1   1.6-7-6.7-6.7   2.5-3.3-4.9   6.7-6.7-6.7   1.3-2.1-3.3   6.7-6.7-6.7   0.0-0.5-2.5	none	duration	frequency	duration 	depth   L - R - H 
wet February   moist   wet March   moist   wet April   moist   wet May   moist	1.6-3.0-4.:   1.6-3.0-4.:   1.6-3.3-4.:   1.6-3.3-4.:   1.6-0.0-0.:   1.3-2.1-3.:   1.3-2.1-3.:   1.3-2.1-3.:	0   1.6-3.0-4.1 1   6.7-6.7-6.7 0   2.5-3.3-4.9 9   6.7-6.7-6.7 0   1.3-2.1-3.3 3   6.7-6.7-6.7 0   0.0-0.5-2.5	none	 	none	   	L-R-H
wet February   moist   wet March   moist   wet April   moist   wet May   moist   wet	1.6-3.0-4.   0.0-0.0-0.   2.5-3.3-4.   0.0-0.0-0.   1.3-2.1-3.   0.0-0.0-0.   0.0-0.5-2.	1   6.7-6.7-6.7 0   2.5-3.3-4.9 9   6.7-6.7-6.7 0   1.3-2.1-3.3 3   6.7-6.7-6.7	none	   	none	   	     
wet February   moist   wet March   moist   wet April   moist   wet May   moist	1.6-3.0-4.   0.0-0.0-0.   2.5-3.3-4.   0.0-0.0-0.   1.3-2.1-3.   0.0-0.0-0.   0.0-0.5-2.	1   6.7-6.7-6.7 0   2.5-3.3-4.9 9   6.7-6.7-6.7 0   1.3-2.1-3.3 3   6.7-6.7-6.7	none	   	none	   	   
wet March   moist   wet April   moist   wet   wet May   moist   wet	0.0-0.0-0.  2.5-3.3-4.  0.0-0.0-0.  1.3-2.1-3.  0.0-0.0-0.  0.0-0.5-2.	0   2.5-3.3-4.9 9   6.7-6.7-6.7 0   1.3-2.1-3.3 3   6.7-6.7-6.7	none	 		   	   
March moist wet April moist wet May moist wet	0.0-0.0-0.   1.3-2.1-3.   0.0-0.0-0.   0.0-0.5-2.	0   1.3-2.1-3.3 3   6.7-6.7-6.7 0   0.0-0.5-2.5	none	i 	none	i 	j 
wet April   moist   wet May   moist	1.3-2.1-3.1  0.0-0.0-0.1  0.0-0.5-2.1	3   6.7-6.7-6.7   0   0.0-0.5-2.5			none	j	i
April   moist   wet May   moist   wet	0.0-0.0-0.0	0 0.0-0.5-2.5		1	1		
_   wet May   moist   wet	0.0-0.5-2.		i	1			
May   moist		-1	none		occasional	brief	0.0-0.3-0.5
wet							
1		0 0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
Tune   moiet		3 6.7-6.7-6.7					
!		0 0.7-1.3-4.1		ļ	occasional	very brief	0.0-0.3-0.5
wet		1 6.7-6.7-6.7		!	!	!	
July   moist		0 1.6-3.0-4.9		ļ	none		ļ
wet		9 6.7-6.7-6.7				!	
August   moist		0 2.5-3.8-5.7		ļ	none		
wet September  moist		7 6.7-6.7-6.7  0 2.0-3.3-4.9				 	  0.0-0.3-0.5
september   moist		9 6.7-6.7-6.7			rare	very brier	0.0-0.3-0.5
October   moist		0 1.3-1.6-4.1			   rare	lerower bestof	  0.0-0.3-0.5
wet		1 6.7-6.7-6.7			rare		0.0-0.3-0.5
November   moist		0 0.8-1.3-3.3		¦	occasional	   brief	I  0.0-0.3-0.5
wet		3 6.7-6.7-6.7		i			
December   moist		0 1.3-2.1-3.8		i	l none		i
wet		3 6.7-6.7-6.7		i		i	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I51A (continued)

Reiner fine sandy loam (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L - R - H	L - R - H			į		L-R-H
January	moist		4.1-5.4-6.7	none		none	i	
	wet		6.7-6.7-6.7			ļ	!	
February	moist		4.9-5.9-6.7	none		none	!	
			6.7-6.7-6.7					
March	moist		3.3-4.9-6.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.6-2.5-4.1	none		none		
			6.7-6.7-6.7			ļ		
May	moist		2.1-2.8-4.9	none		none		
			6.7-6.7-6.7					
June			2.6-3.1-5.7	none		none		
	wet		6.7-6.7-6.7					
July			0.0-0.0-0.3	none		none		
	moist		3.3-5.7-6.7					
	wet		6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	4.9-6.7-6.7					
	wet	4.9-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	3.6-4.9-6.7					
	wet	3.6-4.9-6.7	6.7-6.7-6.7			[		
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none		
	wet	3.0-4.3-5.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.3-3.3-4.9	none		none	i	
	wet	2.3-3.3-4.9	6.7-6.7-6.7			[		
December	moist	0.0-0.0-0.0	3.3-4.6-5.7	none		none	i	
	wet	3.3-4.6-5.7	6.7-6.7-6.7			I	I	l

Linveldt (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H		[ [		 	L - R - H
<b>-</b>								
anuary	moist wet		4.8-5.4-6.7   6.7-6.7-6.7	none	 	none		
ebruary			5.2-5.7-6.7	none	l I	l none	l I	l I
CDIGGI			6.7-6.7-6.7	110110	! 	110110	! 	İ
March			3.3-4.6-6.7	none	 	l none	i	i
	wet	3.3-4.6-6.7	6.7-6.7-6.7		İ	i	İ	i
April	moist	0.0-0.0-0.0	1.3-2.5-4.9	none	i	none	j	j
			6.7-6.7-6.7					
lay			2.0-3.0-5.6	none		none		
			6.7-6.7-6.7					
une	-		0.0-0.0-0.5	none		none	ļ	!
			2.6-3.6-6.2			ļ		
7			6.7-6.7-6.7				!	!
July			0.0-0.0-0.7   3.9-5.4-6.7	none	 	none		
	wet		3.9-3.4-6.7   6.7-6.7-6.7		 		l I	! !
August	wet   dry	0.0-0.0-0.0		none	l I	l none	! !	! !
iagabe	-		5.4-6.7-6.7	110110	! 		! 	i
			6.7-6.7-6.7			i	i	i
eptember	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none	i	i
_	moist	0.0-0.0-0.3	4.1-4.6-6.7		İ	İ	İ	İ
	wet	4.1-4.6-6.7	6.7-6.7-6.7			İ	ĺ	ĺ
ctober	moist	0.0-0.0-0.0	3.6-3.9-6.7	none		none		
	wet		6.7-6.7-6.7					
ovember			2.5-3.3-5.7	none		none		
			6.7-6.7-6.7			!	!	!
ecember	moist	0.0-0.0-0.0		none		none	ļ	!
	wet	3.9-4.6-6.2	6.7-6.7-6.7			1	l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I51A (continued)

Kratka (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth L-R-H	depth     L - R - H	frequency	duration	frequency	duration	depth L-R-H
	 		 		 	-  	]	
January	moist		1.6-3.0-4.1	none		none	ļ	
			6.7-6.7-6.7					
February	moist		2.5-3.3-4.9   6.7-6.7-6.7	none	<del></del>	none		
March			1.6-2.1-4.1	none	l 	l none		
ai cii			6.7-6.7-6.7	none	 			
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		İ	i	i	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	i	occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
July	moist		1.6-3.3-4.9	none		none	ļ	
			6.7-6.7-6.7					
August	moist		2.5-4.1-5.7   6.7-6.7-6.7	none		none		
September			0.7-0.7-0.7   1.6-3.3-4.9	none	 	l none		
september			6.7-6.7-6.7	none	 	l none		 
October	moist		11.3-2.5-4.1	none	! 	   rare	very brief	  0.0-0.1-0.
	wet		6.7-6.7-6.7		İ			
Tovember	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	i	rare	very brief	0.0-0.1-0.
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	j	İ
ecember	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Eckvoll (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
j	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	İ -İ	   	L-R-H
January	moist	0.0-0.0-0.0	 	none	 	none	i I	i I
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none		none		
J	wet	4.9-5.7-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
ļ	wet	3.3-4.6-6.7	6.7-6.7-6.7					
April	moist		2.1-2.5-4.6	none		none		
ļ	wet		6.7-6.7-6.7					
May	moist		2.6-3.1-5.2	none		none		
l	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
			2.6-3.8-6.2					
			6.7-6.7-6.7					
July			0.0-0.0-0.5	none		none		ļ
!			3.8-4.9-6.7				!	!
!			6.7-6.7-6.7				!	!
August			0.0-0.0-0.8	none		none	ļ	!
!			5.2-6.7-6.7				!	!
!			6.7-6.7-6.7				!	!
September			0.0-0.0-0.3	none		none	ļ	ļ
ļ			3.8-4.1-6.7					!
			6.7-6.7-6.7					!
October	moist		3.3-3.8-6.7	none		none		
			6.7-6.7-6.7					
November			2.5-3.3-5.6	none		none		
_			6.7-6.7-6.7					
December			3.8-4.1-6.2	none		none		
,	wet	3.8-4.1-6.2	16.7-6.7-6.71		I	1	I	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I51A (continued)

Reiner, very cobbly (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į i	L-R-H	L-R-H		İ	į	į	L-R-H
	i		İi			İ	İ	İ
						[		
January	moist	0.0-0.0-0.0	4.1-5.4-6.7	none		none		
	wet		6.7-6.7-6.7					
February	moist		4.9-5.9-6.7	none		none		
	wet	4.9-5.9-6.7	6.7-6.7-6.7					
March	moist		3.3-4.9-6.7	none		none		
	wet		6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet		6.7-6.7-6.7					
May	moist		2.1-2.8-4.9	none		none		
	wet		6.7-6.7-6.7					
June	moist		2.6-3.1-5.7	none		none		
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.3	none		none		
	moist		3.3-5.7-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.5	none		none		
	moist		4.9-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3	none		none		
	moist		3.6-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.0-4.3-5.7	none		none		
	wet		6.7-6.7-6.7					
November	moist		2.3-3.3-4.9	none		none		
	wet		6.7-6.7-6.7					
December	moist		3.3-4.6-5.7	none		none		
	wet	3.3-4.6-5.7	6.7-6.7-6.7					
	l							

I52A Reis-Clearwater complex, 0 to 2 percent slopes

Reis (55 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H		!	!	!	L-R-H
January	   moist	  0.0-0.0-0.0	  1.6-2.1-4.1	none		none	 	 
	wet	1.6-2.1-4.1	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none		
	wet	2.0-2.6-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.8-2.0-3.9	none		none		
	wet	0.8-2.0-3.9	6.7-6.7-6.7					
April	moist		0.0-0.5-2.5	none		none		
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist		0.3-0.8-3.0	none		none		
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-3.6	none		none		
	wet		6.7-6.7-6.7					
July	moist		1.6-2.8-4.6	none		none		
	wet		6.7-6.7-6.7					
August	moist		2.5-3.6-5.4	none	ļ	none	ļ	ļ
	wet		6.7-6.7-6.7		!	!	!	!
September	moist		1.6-3.1-4.6	none	!	none	!	!
_	wet		6.7-6.7-6.7			ļ	!	!
October	moist		1.1-2.0-4.1	none	ļ	none	ļ	!
_	wet		6.7-6.7-6.7		!	ļ	!	!
November	moist		0.7-1.6-3.3	none		none		ļ
	wet		6.7-6.7-6.7					ļ
December	moist		1.1-2.0-3.8	none		none	!	!
	wet	1.1-2.0-3.8	6.7-6.7-6.7		ļ.	!	!	ļ.

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I52A (continued)

Clearwater (30 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 .	 	L - R - H
January	   moist	0.0-0.0-0.0	  0.8-2.1-4.1	none	 	none	i 	
	wet	0.8-2.1-4.1	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none		
	wet	1.6-2.5-4.9	6.7-6.7-6.7					
March	moist		0.3-1.3-3.3			none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-1.6			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			1		
June	moist		0.8-1.3-3.3		ļ	occasional	very brief	0.0-0.3-0.5
_	wet	•	6.7-6.7-6.7			!		
July	moist		1.3-2.1-4.1			rare	very brief	0.0-0.2-0.3
			6.7-6.7-6.7					
August	moist		1.6-3.0-4.9			rare	very brief	0.0-0.2-0.3
a			6.7-6.7-6.7				 	
September			1.3-2.5-4.1   6.7-6.7-6.7	none	 	rare	very brier	0.0-0.2-0.3 
October	wet   moist		0.7-0.7-0.7   0.8-1.6-3.3		l I	  occasional	lucry brief	  0.0-0.2-0.3
occoper	wet		6.7-6.7-6.7		 	l	very prier	0 • 0 - 0 • 2 - 0 • 3
November	moist	•	0.7-0.7-0.7		! !	  occasional	   brief	  0.0-0.3-0.5
10 A CHIDGI	wet		6.7-6.7-6.7		 		Drier	0.0-0.5-0.5
December	moist		0.8-1.6-3.3		! 	l none		! 
- C COMMOCI	wet		6.7-6.7-6.7	110110	! 			 
	50				i I	i	i	i
	1					-	1	

Clearwater, very cobbly (5 percent of the map unit)

,	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
J	status	depth	depth	frequency	duration	frequency	duration	depth
ļ		L - R - H	L-R-H			1		L-R-H
	 		 		I	. I	————————————————————————————————————	 
January	moist	0.0-0.0-0.0	0.8-2.1-4.1	none	j	none	j	j
j	wet	0.8-2.1-4.1	6.7-6.7-6.7		ĺ	İ	İ	ĺ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none		
	wet	1.6-2.5-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none		
ļ	wet	0.3-1.3-3.3	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
J			6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
ļ			6.7-6.7-6.7					
June			0.8-1.3-3.3			occasional	very brief	0.0-0.3-0.5
ļ			6.7-6.7-6.7					
July			1.3-2.1-4.1			rare	very brief	0.0-0.2-0.3
I			6.7-6.7-6.7					
August			1.6-3.0-4.9			rare	very brief	0.0-0.2-0.3
			6.7-6.7-6.7			1		
September			1.3-2.5-4.1			rare	very brief	0.0-0.2-0.3
!			6.7-6.7-6.7		<u> </u>			!
October			0.8-1.6-3.3		!	occasional	very brief	0.0-0.2-0.3
_			6.7-6.7-6.7					
November			0.5-1.3-2.5		!	occasional	brief	0.0-0.3-0.5
_			6.7-6.7-6.7			!		<u> </u>
December			0.8-1.6-3.3		!	none	ļ	!
!	wet	0.8-1.6-3.3	6.7-6.7-6.7		!	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I52A (continued)

Clearwater, depressional (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		 	l I	 	L - R - H
						_		
January	moist		0.5-1.3-2.5	none	!	occasional	long	0.0-0.5-1.
	•		6.7-6.7-6.7					
February	•		0.8-1.6-3.0	none	!	occasional	long	0.0-0.5-1.
			6.7-6.7-6.7					
March			0.0-0.0-1.6	none	ļ	occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
April			0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
			6.7-6.7-6.7					
June	•		0.0-0.5-1.6	none		occasional	long	0.0-0.5-1.
			6.7-6.7-6.7					
July			0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.
	•		6.7-6.7-6.7					
August	moist		0.8-1.6-3.0	none		occasional	brief	0.0-0.5-1.
	wet	0.8-1.6-3.0	6.7-6.7-6.7					
September	moist		0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.2-0.5-1.6	none		occasional	long	0.0-0.5-1.
	wet		6.7-6.7-6.7				[	
December	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	long	0.0-0.5-1.
	wet	0.3-0.8-2.0	6.7-6.7-6.7		I		I	1

Espelie (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		 			L - R - H 
January	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		   
J 411441 2			6.7-6.7-6.7		i I		i	i
February	•		2.0-2.6-4.9	none		none	i	i
	wet	2.0-2.6-4.9	6.7-6.7-6.7		İ	i	İ	İ
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none		none		i
	wet	1.5-2.3-4.9	6.7-6.7-6.7					
April			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7					
May	•		0.5-0.8-3.3			occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7				!	!
June	•	0.0-0.0-0.0		none		occasional	very brief	0.0-0.3-0.
	•		6.7-6.7-6.7			ļ	!	ļ
July			1.6-3.0-4.9	none		none		
	•		6.7-6.7-6.7   2.5-3.8-5.7		 		1	
August	•		2.3-3.8-5.7   6.7-6.7-6.7	none	<del></del>	none		
September	•		1.6-3.3-4.9	none	! !	   rare	lvery brief	0.0-0.1-0.
Deptember	•		6.7-6.7-6.7	none	 	l rare	Very Direc	1
October	•		1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	•		6.7-6.7-6.7		i			
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	i	rare	very brief	0.0-0.1-0.
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7		I	1	I	1

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I52A (continued)

Hattie (3 percent of the map unit)

Month	  Moisture	   Top	Bottom	Flooding	   Flooding	Ponding	   Ponding	   Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	scacus	L-R-H	Gepth	rrequency	l duracion	lrequency	ddracion	L-R-H
		L - K - H	L - K - H		l I	 	! !	L - K - H
			l ————————————————————————————————————		<del></del>	 	l	l
January	   moist	  0.0-0.0-0.0	  4.1-5.7-6.7	none	 	none	! 	 
-	wet	4.1-5.7-6.7	6.7-6.7-6.7				İ	i
February	moist	0.0-0.0-0.0	4.9-6.7-6.7	none		none	i	i
_	wet	4.9-6.7-6.7	6.7-6.7-6.7			İ	İ	İ
March	moist	0.0-0.0-0.0	4.1-5.7-6.7	none		none	i	i
	wet	4.1-5.7-6.7	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		none	i	i
	wet	1.3-2.1-4.1	6.7-6.7-6.7				ĺ	ĺ
May	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	2.0-3.0-5.7	none		none		
	wet	2.0-3.0-5.7	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	2.5-4.1-6.7	none		none		
	wet	2.5-4.1-6.7	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none		
	wet	3.3-4.9-6.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
December	moist	•	3.6-4.9-6.7			none		
	wet	3.6-4.9-6.7	6.7-6.7-6.7					
	l						l	

#### Wyandotte (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	  -	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	 	   none	i 	 
-	wet		6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none	i	none	i	i
	wet	2.0-2.6-4.9	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	1.5-2.3-4.1	none		none		
	wet	1.5-2.3-4.1	6.7-6.7-6.7					
April			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May			0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.6-4.1	none	ļ	occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			!		!
July			1.6-3.0-4.9	none		none		
3			6.7-6.7-6.7   2.5-3.8-5.7		 			 
August			2.5-3.8-5.7   6.7-6.7-6.7	none	<del></del>	none		
September	wet     moist		1.6-3.3-4.9	none	! !	l none		! !
Бересмыет			6.7-6.7-6.7	110110	! 	110110	i	i i
October			11.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7		i	i	-	
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	i	none	i	i
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7			1		I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I53A Roliss loam, 0 to 2 percent slopes

Roliss (75 percent of the map unit)

					1		1	·
Month	  Moisture	   Top	Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H	   	İ	į	į	L - R - H
	 		<del></del>		[	-		
January	moist		1.6-3.0-4.1	•		none	ļ	
_	wet		6.7-6.7-6.7			ļ.	!	
February	moist		2.5-3.3-4.9	•		none	ļ	
_	wet		6.7-6.7-6.7	•		ļ.	!	
March	moist		1.3-2.1-3.3			none	ļ	
	wet		6.7-6.7-6.7	•	!			
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!			
May	moist		0.3-0.8-3.3	•		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•	!			
June	moist		0.7-1.3-4.1	•		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•	!	ļ	!	
July	moist		1.6-3.0-4.9			none	ļ	
	wet		6.7-6.7-6.7	•	!	ļ	!	
August	moist		2.5-3.8-5.7	•		none	ļ	
	wet		6.7-6.7-6.7	•	!	ļ		
September	:		2.0-3.3-4.9	•		rare	very brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7	•		!		
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•		!		
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ.	!	l
December	moist		1.3-2.1-3.8	•	ļ	none	ļ	ļ
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!	!	!	l
						_	.	

Kratka (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H
January	moist	0.0-0.0-0.0		none		none		
January			1.0-3.0-4.1   6.7-6.7-6.7	none	 	Hone		 
February			2.5-3.3-4.9	none	! 	   none		! 
1 022 441 7			6.7-6.7-6.7		i I		i	i
March			1.6-2.1-4.1		i	none		i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7		j	j	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					[
June			0.8-1.6-4.1			rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July			1.6-3.3-4.9	none		none		
			6.7-6.7-6.7					
August			2.5-4.1-5.7			none		
	•		6.7-6.7-6.7		!	!	!	!
September			1.6-3.3-4.9	none	ļ	none	ļ	!
			6.7-6.7-6.7					
October			1.3-2.5-4.1			rare	very brief	0.0-0.1-0.3
November			6.7-6.7-6.7				 	
November			0.8-1.6-3.3   6.7-6.7-6.7		 	rare	very brief	0.0-0.1-0.3
December			6.7-6.7-6.7   1.3-2.1-3.8		 	l none	1	] 
December			1.3-2.1-3.8   6.7-6.7-6.7	none	 	none		
	l wer	1.3-4.1-3.6	0 - / - 0 - / - 0 - /		!	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I53A (continued)

Roliss, very cobbly (7 percent of the map unit)

Month	Moisture	1	Bottom	   Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	.i	L - R - H 	L - R - H 	 	 	İ	 	L - к - н
T	   moist	j 	  1.6-3.0-4.1		į	j	į	į
January	moist		6.7-6.7-6.7	none		none		
February	moist		2.5-3.3-4.9			l none		! !
rebruary	wet		6.7-6.7-6.7	•		l none		 
March	moist		11.3-2.1-3.3			l none	l	<u> </u>
riai Cii	wet		6.7-6.7-6.7			none		 
April	moist		0.0-0.5-2.5	•	i	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		i		22202	 
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
-	wet		6.7-6.7-6.7	•	i	İ	i	i
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none	i	occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7	İ	İ	İ	į -	İ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		i
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
September			2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•	ļ		ļ	
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!			!
November	moist		0.8-1.3-3.3	•		occasional	brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7	•		ļ	ļ	!
December	moist		1.3-2.1-3.8			none	ļ	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7			1	Į.	
	.				l	.	l	

Kittson (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
į	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	İ -İ	İ I	L-R-H
January	moist	0.0-0.0-0.0	 	none	i 	none	i 	i I
	wet	4.1-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	4.9-5.9-6.7	none		none		
1	wet	4.9-5.9-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none		
ļ	wet	3.3-4.9-6.7	6.7-6.7-6.7					
April	moist		1.6-2.5-4.1	none		none		
ļ	wet		6.7-6.7-6.7					
May	moist		2.1-2.8-4.9	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
	moist		2.6-3.1-5.7					
	wet		6.7-6.7-6.7					
July	_		0.0-0.0-0.3	none		none		ļ
	moist		3.3-5.7-6.7				!	!
			6.7-6.7-6.7				!	!
August	dry		0.0-0.0-0.5	none		none	!	!
	moist		4.9-6.7-6.7				!	!
	wet		6.7-6.7-6.7				!	!
September	dry		0.0-0.0-0.3	none		none	!	ļ
	moist		3.6-4.9-6.7					!
	wet		6.7-6.7-6.7					!
October	moist		3.0-4.3-5.7	none		none		
	wet		6.7-6.7-6.7					
November	moist		2.3-3.3-4.9	none		none		
_			6.7-6.7-6.7					
December			3.3-4.6-5.7	none		none		
I	wet	3.3-4.6-5.7	16.7-6.7-6.71		I	1	I	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I53A (continued)

Roliss, depressional (3 percent of the map unit)

		!			!		!	!
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H   		 	 _	 .	L - R - H 
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.0	none	 	  occasional	l long	  0.0-0.5-1.0
	wet	0.8-1.6-3.0	6.7-6.7-6.7				1	
February	moist	0.0-0.0-0.0	1.6-2.5-3.3	none		occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-3.3	6.7-6.7-6.7					
March	moist		0.0-0.0-1.6			occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.6			frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
June	moist		0.2-0.8-2.5			occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7				1	!
July	moist		0.8-1.6-3.0		!	rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!	!	!	!
August	moist		1.6-2.1-3.3		ļ	rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			!	!	
September	!		0.8-1.6-3.0			rare	brief	0.0-0.3-0.
0-1-1	wet		6.7-6.7-6.7			1	1 2004 - 6	
October	moist   wet		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7		 		1 1	
November	moist		0.2-0.5-1.6			occasional	long	0.0-0.5-1.0
December	wet   moist		6.7-6.7-6.7   0.3-0.8-2.0		 	  occasional	llong	  0.0-0.5-1.0
December	moist   wet		0.3-0.8-2.0   6.7-6.7-6.7	none		CCCasional	l rong	10.0-0.5-1.
	l wer	0.3-0.6-2.0   	0 • / <del>-</del> 0 • / <del>-</del> 0 • /   		[ [	I I	I	I I
	I	l —————	l ————————————————————————————————————			_ I	· I	l

Smiley (2 percent of the map unit)

	I	ı	1		I	I	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-3.0-4.1	none		none		
Uanuary	wet		1.0-3.0-4.1   6.7-6.7-6.7		 	l none		 
February	moist		2.5-3.3-4.9		 	l none		 
r cor dar y	wet		6.7-6.7-6.7		! I	1		! !
March	moist		11.3-2.1-3.3			l none	i	! 
	wet		6.7-6.7-6.7		i		i	i
April	moist		0.0-0.5-2.5		i	occasional	brief	0.0-0.3-0.
-	wet		6.7-6.7-6.7		i			
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.3-0.8-3.3	6.7-6.7-6.7		į	i	İ	İ
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.7-1.3-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7		[	1		
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7		[			
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		[			
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		ļ	1		
December	moist		1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7		ļ	ļ	!	!
	l					_	.	

### Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I54A Roliss loam, depressional, 0 to 1 percent slopes

Roliss, depressional (80 percent of the map unit)

Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L - R - H	L - R - H	 	 	İ	į I	L - R - H
January	moist	10.0-0.0-0.0	0.8-1.6-3.0	none	   	occasional	long	0.0-0.5-1.0
	wet	•	6.7-6.7-6.7	•	İ		İ	İ
February	moist	0.0-0.0-0.0	1.6-2.5-3.3	none	i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-3.3	6.7-6.7-6.7	İ	İ	İ	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					1
April   n	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					[
May	moist		0.0-0.0-1.6	•		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					1
June	moist		0.2-0.8-2.5	•		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
July	moist		0.8-1.6-3.0	•		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
August	moist		1.6-2.1-3.3	•		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	!		!
September			0.8-1.6-3.0	•	ļ	rare	brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7	•			!	
October	moist		0.5-1.3-2.5	•		occasional	brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7	•			! -	
November	moist		0.2-0.5-1.6			occasional	long	0.0-0.5-1.0
_ ,	wet		6.7-6.7-6.7	•		!		
December	moist		0.3-0.8-2.0	•		occasional	long	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7			1	1	
	I	l	l —————	l	l	I		

Roliss (12 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H			[	[	L - R - H
					l 	 	————————————————————————————————————	
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none	i	none	j	i
	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	ĺ	ĺ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none		
	wet	1.3-2.1-3.3	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.3-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			1		
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7			1		
	l							

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I54A (continued)

Hamre (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L-R-H		 		 	L - R - H 
January	moist		0.8-1.6-3.3	none		 	long	0.0-0.5-1.0
January	wet		6.7-6.7-6.7	none	 	l	l 10119	1
February	wec   moist		1.6-2.5-4.1	none	! 	occasional	llong	  0.0-0.5-1.
			6.7-6.7-6.7		İ			
March	moist		0.0-0.0-2.5	none	i	occasional	long	0.0-0.5-1.
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	i	i	į
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	j	frequent	long	0.0-0.5-1.
	wet	0.0-0.0-0.8	6.7-6.7-6.7		ĺ	İ	İ	ĺ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7			1		1
June	moist		0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7			Ţ		[
July	moist		0.2-0.8-2.5	none	!	rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			ļ	!	
August	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7				1 1	
September	moist wet		0.5-1.3-3.0   6.7-6.7-6.7	none		occasional	brief	0.0-0.3-0.
October	wet   moist		0.7-6.7-6.7   0.3-0.8-2.5	none	l I	  occasional	   brief	  0.0-0.5-1.
occoper	wet		6.7-6.7-6.7	none	 	l	l prier	1
November	wec   moist		0.0-0.3-1.6	none	 	loccasional	llong	  0.0-0.5-1.
	wet		6.7-6.7-6.7		i i			
December	moist		0.5-1.3-2.5	none	i	loccasional	long	  0.0-0.5-1.
pecember   :	wet	0.5-1.3-2.5			i		i	

#### Kratka (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
ļ		L-R-H	L-R-H			ļ		L-R-H
	 		 			-		l I
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none	i	none	i	
	wet	1.6-3.0-4.1	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
ļ			6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
J			6.7-6.7-6.7			1		
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
ļ			6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
ļ			6.7-6.7-6.7					
July			1.6-3.3-4.9	none		none		
ļ			6.7-6.7-6.7					
August			2.5-4.1-5.7	none		none		
I			6.7-6.7-6.7					
September			1.6-3.3-4.9	none		none		
l			6.7-6.7-6.7					
October			1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7			ļ		
November			0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
l			6.7-6.7-6.7					
December			1.3-2.1-3.8	none		none		ļ
!	wet	1.3-2.1-3.8	6.7-6.7-6.7					

# Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I55A Rosewood fine sandy loam, 0 to 2 percent slopes

Rosewood (75 percent of the map unit)

wet	depth L - R - H	depth     L - R - H   	frequency	duration	frequency	duration	depth L - R - H
wet	0.0-0.0-0.0	İi		 	 	[ [	L-R-H
wet		     2_0-2_5-4_9			.		l
wet		  2 0-2 5-4 9					
wet				 		!!!	
		2.0-2.3-4.9   6.7-6.7-6.7	none	 	none		
			nono	l I	l none	] 	
			none	 	Hone		 
			none	l 	l none	 	 
			110110		1		
			none	i	occasional	brief	  0.0-0.3-0.5
				İ			
			none		occasional	very brief	0.0-0.3-0.5
wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	i	į -	
moist	0.0-0.0-0.0	0.8-1.6-4.1	none	i	rare	very brief	0.0-0.3-0.5
wet	0.8-1.6-4.1	6.7-6.7-6.7			İ	į į	İ
moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
wet	1.6-3.3-4.9	6.7-6.7-6.7					
			none		none		
			none		none		
					!		
			none		rare	very brief	0.0-0.3-0.5
					ļ		
			none		none		
				 		! !	
			none		none		
wet	1.3-2.1-4.1	6.7-6.7-6.7		 			
	moist wet        moist          0.0-0.0-0.0           wet          2.5-4.9-5.7           moist          0.0-0.0-0.0           wet          1.3-3.0-4.9           moist          0.0-0.0-0.0           wet          1.0-2.1-4.1           moist          0.0-0.0-0.0           wet          1.0-2.1-4.1           moist          0.0-0.0-0.0           wet          0.8-1.6-3.3           moist          0.0-0.0-0.0	wet         2.5-3.3-5.7   6.7-6.7-6.7           moist           0.0-0.0-0.0   1.6-2.1-4.1             wet           1.6-2.1-4.1   6.7-6.7-6.7             moist           0.0-0.0-0.0   0.0-0.5-2.5             wet           0.0-0.5-2.5   6.7-6.7-6.7             moist           0.0-0.0-0.0   0.5-1.3-3.3             wet           0.5-1.3-3.3   6.7-6.7-6.7             moist           0.0-0.0-0.0   0.8-1.6-4.1             wet           0.8-1.6-4.1   6.7-6.7-6.7             moist           0.0-0.0-0.0   1.6-3.3-4.9             wet           1.6-3.3-4.9   6.7-6.7-6.7             moist           0.0-0.0-0.0   2.5-4.9-5.7             wet           2.5-4.9-5.7   6.7-6.7-6.7             moist           0.0-0.0-0.0   1.3-3.0-4.9             wet           1.3-3.0-4.9   6.7-6.7-6.7             moist           0.0-0.0-0.0   1.0-2.1-4.1             wet           1.0-2.1-4.1   6.7-6.7-6.7             moist           0.0-0.0-0.0   0.8-1.6-3.3             wet           1.0-2.1-4.1   6.7-6.7-6.7             moist           0.0-0.0-0.0   1.0-2.1-4.1             wet           1.0-2.1-4.1   6.7-6.7-6.7             moist           0.0-0.0-0.0   1.0-2.1-4.1             wet           1.0-2.1-4.1   6.7-6.7-6.7             mois	wet           2.5-3.3-5.7   6.7-6.7-6.7             moist           0.0-0.0-0.0   1.6-2.1-4.1           none           wet           1.6-2.1-4.1           6.7-6.7-6.7             moist           0.0-0.0-0.0   0.0-0.5-2.5           none           wet           0.0-0.5-2.5           6.7-6.7-6.7             moist           0.0-0.0-0.0   0.5-1.3-3.3           none           wet           0.5-1.3-3.3   6.7-6.7-6.7           none           wet           0.8-1.6-4.1           6.7-6.7-6.7             moist           0.0-0.0-0.0   0.8-1.6-4.1           none           wet           1.6-3.3-4.9   6.7-6.7-6.7           none           wet           1.6-3.3-4.9   6.7-6.7-6.7           none           wet           2.5-4.9-5.7   6.7-6.7-6.7           none           wet           2.5-4.9-5.7   6.7-6.7-6.7           none           wet           1.3-3.0-4.9   6.7-6.7-6.7           none           wet           1.3-3.0-4.9   6.7-6.7-6.7           none           wet           1.0-2.1-4.1   6.7-6.7-6.7           none           wet           1.0-2.1-4.1   6.7-6.7-6.7           none           wet           1.0-2.1-4.1   6.7-6.7-6.7           none           wet           1.0-2.1-4.1   6.7-6.7-6.7           none	wet           2.5-3.3-5.7   6.7-6.7-6.7           none            moist           0.0-0.0-0.0   1.6-2.1-4.1           none            wet           1.6-2.1-4.1   6.7-6.7-6.7           none            wet           0.0-0.0-0.0   0.0-5-2.5           none            wet           0.0-0.5-2.5   6.7-6.7-6.7           none            moist           0.0-0.0-0.0   0.5-1.3-3.3           none            wet           0.5-1.3-3.3   6.7-6.7-6.7           none            wet           0.8-1.6-4.1   6.7-6.7-6.7           none            wet           0.8-1.6-4.1   6.7-6.7-6.7           none            wet           1.6-3.3-4.9   6.7-6.7-6.7           none            wet           1.6-3.3-4.9   6.7-6.7-6.7           none            wet           2.5-4.9-5.7   6.7-6.7-6.7           none            wet           1.3-3.0-4.9   6.7-6.7-6.7           none            wet           1.3-3.0-4.9   6.7-6.7-6.7           none            wet           1.0-2.1-4.1   6.7-6.7-6.7           none            wet           1.6-3.3   6.7-6.7-6.7           none <td>wet           2.5-3.3-5.7   6.7-6.7-6.7   <t< td=""><td>wet           2.5-3.3-5.7   6.7-6.7-6.7           none         one          none          none          none          none          none          none          none          none          none          none          none          none          none          none          none          none          none          none          none          <t< td=""></t<></td></t<></td>	wet           2.5-3.3-5.7   6.7-6.7-6.7   <t< td=""><td>wet           2.5-3.3-5.7   6.7-6.7-6.7           none         none          <t< td=""></t<></td></t<>	wet           2.5-3.3-5.7   6.7-6.7-6.7           none         none <t< td=""></t<>	

Ulen (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
I	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H   		 	 	 	L - R - н 
	moist		    2.6-3.3-5.9	none		none	   	
January			2.6-3.3-5.9   6.7-6.7-6.7	none	<del></del>	l none		
February			3.3-4.1-6.7	none	l 	l none	! !	l I
rebruary	wet		6.7-6.7-6.7	none	 	l none	I	 
March			2.6-3.3-5.7	none	! 	l none	! 	! 
I			6.7-6.7-6.7		! 		i I	i I
April			1.5-2.0-3.3	none		none	i	
i			6.7-6.7-6.7		! 	İ	i	İ
May	moist	0.0-0.0-0.0	2.0-2.5-4.1	none		none	i	i
j	wet	2.0-2.5-4.1	6.7-6.7-6.7		İ	İ	İ	İ
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
ĺ	moist	0.0-0.0-0.3	2.5-3.0-4.9			ĺ	ĺ	ĺ
I	wet	2.5-3.0-4.9	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
I	moist	0.0-0.0-0.5	3.0-4.9-6.2					
I	wet	3.0-4.9-6.2	6.7-6.7-6.7					
August			0.0-0.0-0.7	none		none		
I			6.7-6.7-6.7					
September			0.0-0.0-0.3	none		none		
I			2.6-4.9-6.7					
ļ			6.7-6.7-6.7					
October			2.3-3.0-5.7	none		none		
ļ			6.7-6.7-6.7					
November			2.0-2.5-4.9	none		none	ļ	ļ
_ !			6.7-6.7-6.7			!	<u> </u>	l
December			2.3-3.0-5.2	none	ļ	none	ļ	ļ
į	wet	2.3-3.0-5.2	6.7-6.7-6.7				l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I55A (continued)

Hamar (6 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H		 			L - R - H
						ļ		ļ
anuary			2.0-2.5-4.9	none	ļ	none	!	ļ
_			6.7-6.7-6.7			ļ	!	!
ebruary			2.5-3.3-5.7		ļ	none		
_			6.7-6.7-6.7				ļ	!
March			1.6-2.1-4.1			none		ļ
			6.7-6.7-6.7			!		
pril			0.0-0.5-2.5			occasional	brief	0.0-0.3-0
			6.7-6.7-6.7				 	
lay			0.5-1.3-3.3			occasional	very brief	10.0-0.3-0
			6.7-6.7-6.7				 	
June			0.8-1.6-4.1	none		rare	very brief	10.0-0.3-0
To . 7			6.7-6.7-6.7   1.6-3.3-4.9		 		l I	
July			1.6-3.3-4.9   6.7-6.7-6.7			none		
August			0.7-6.7-6.7   2.5-4.9-5.7		l i	l none	 	l I
august			2.3-4.9-3.7   6.7-6.7-6.7		 	none		 
September			1.3-3.0-4.9		l I	l none	l 	l I
epcember			1.3-3.0-4.9   6.7-6.7-6.7	none	 	l none	 	 
ctober			1.0-2.1-4.1	none	! !	   rare	very brief	I   0
CCCDCI			6.7-6.7-6.7		! 	1		0.0 0.5 0.
lovember			0.8-1.6-3.3	none	! 	none	 	! !
			6.7-6.7-6.7		! 		¦	i
ecember			11.3-2.1-4.1	none		none	i	i
			6.7-6.7-6.7		i I		i	i
					! 	i	:	;

Rosewood, depressional (3 percent of the map unit)

	1	I	I I					
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist	10.0-0.0-0.0	0.8-1.6-3.0	none		    occasional	long	0.0-0.5-1.
0 411441 7	wet		6.7-6.7-6.7		İ			
February	moist		2.0-3.0-3.6			occasional	long	0.0-0.5-1.
	wet	2.0-3.0-3.6	6.7-6.7-6.7		į	i	i	į
March	moist	0.0-0.0-0.0	0.0-0.5-2.0	none	j	occasional	long	0.0-0.5-1.
	wet	0.0-0.5-2.0	6.7-6.7-6.7					I
April   mo:	moist		0.0-0.0-1.0	none		frequent	long	0.0-0.5-1.
	wet	0.0-0.0-1.0	6.7-6.7-6.7					[
May	moist	0.0-0.0-0.0	0.0-0.5-2.0	none		frequent	long	0.0-0.5-1.
	wet	0.0-0.5-2.0	6.7-6.7-6.7					
June	moist		0.3-1.3-2.6	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
July	moist		1.0-2.1-3.3		ļ	rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
August	moist		2.0-3.0-3.8			rare	very brief	0.0-0.3-0.
_	wet		6.7-6.7-6.7			!	!	
September			1.0-2.1-3.3			rare	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			!		
October	moist		0.7-1.6-2.6			occasional	brief	0.0-0.3-0.
November	wet   moist		6.7-6.7-6.7   0.3-1.3-2.0			  occasional	   long	  0.0-0.5-1.
November	moist   wet		0.3-1.3-2.0   6.7-6.7-6.7			occasional	l Tong	10.0-0.5-1.
December	wet   moist		6.7-6.7-6.7   0.7-1.6-2.5		I I	  occasional	   long	  0.0-0.5-1.
December	moist   wet		0.7-1.6-2.5   6.7-6.7-6.7	none		loccasional	l rong	10.0-0.5-1.
	l wer	I 1 . 0 - 2 . 5	0 • / <del>-</del> 0 • / <del>-</del> 0 • /   		I I	I I	1	I I
	I	I ————			I	_	·I	I ————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I55A (continued)

Syrene (3 percent of the map unit)

Month	  Moisture	I Top	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į i	L - R - н	_   L - R - н		j I		į i	L - R - н
January	     moist	0.0-0.0-0.0	2.0-3.0-4.9	none		none		   
	wet		6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	j	none	j	i
	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	i	none	j	i
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		1.0-1.6-2.5	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7			ļ	<u> </u>	
July	moist		1.6-2.5-4.9	none	ļ	none		ļ
	wet		6.7-6.7-6.7		!		ļ	!
August	moist		2.5-3.3-5.7		!	none	!	!
	wet		6.7-6.7-6.7		<u> </u>	ļ	!	!
September	!		1.3-2.5-4.9	none		none	!	ļ
	wet		6.7-6.7-6.7					
October	moist		1.0-2.1-4.1	none		none		
	wet		6.7-6.7-6.7				!	
November	moist		0.8-1.6-3.3			none		ļ
	wet		6.7-6.7-6.7			ļ		
December	moist		1.6-2.1-4.1	none		none		
	wet	11.6-2.1-4.1	6.7-6.7-6.7		 	I I		
	I					_	.	

Karlsruhe (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
ļ	status	depth	depth	frequency	duration	frequency	duration	depth
I	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  2.6-3.3-6.2	none	 	none	 	 
ľ	wet	2.6-3.3-6.2	6.7-6.7-6.7					l
ebruary	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
ľ	wet	3.3-4.1-6.7	6.7-6.7-6.7					l
March	moist	0.0-0.0-0.0	2.6-3.3-5.9	none		none		
ľ	wet	2.6-3.3-5.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none		none		
ľ	wet	1.5-2.0-3.3	6.7-6.7-6.7					
fay	moist	0.0-0.0-0.0	1.8-2.5-4.1	none		none		
ľ	wet	1.8-2.5-4.1	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	2.5-3.0-4.9	none		none		
ľ	wet	2.5-3.0-4.9	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
ľ	moist	0.0-0.0-0.3	3.0-3.6-6.7					
ľ	wet	3.0-3.6-6.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
ľ	moist	0.0-0.0-0.5	4.1-6.7-6.7					
ľ	wet	4.1-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
ľ	moist	0.0-0.0-0.3	2.6-4.1-6.7					
ľ	wet	2.6-4.1-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none		
ľ	wet	3.0-4.3-5.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.0-2.5-4.9	none		none		
1	wet	2.0-2.5-4.9	6.7-6.7-6.7					l
December	moist	0.0-0.0-0.0	2.3-3.0-5.6	none		none	j	
İ	wet	2.3-3.0-5.6	6.7-6.7-6.7				I	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I55A (continued)

Strathcona (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		 			L - R - H
January	moist   wet		1.6-3.0-4.1   6.7-6.7-6.7	none		none		
February	wet   moist		6.7-6.7-6.7    2.5-3.3-4.9		1	l mone	l i	l I
rebruary			2.5-3.3-4.9   6.7-6.7-6.7			none		
March			0.7-0.7-0.7   1.6-2.1-4.1		I I	l none		l I
March	moist   wet		1.0-2.1-4.1   6.7-6.7-6.7			i none		 
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5			occasional	   brief	  0.0-0.3-0.
APILI	wet		6.7-6.7-6.7			l	Dilei	0 • 0 = 0 • 5 = 0 • ·
May	moist		0.5-0.8-3.3		i	loccasional	  verv brief	  0.0-0.3-0.
2	wet		6.7-6.7-6.7		İ			
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		i	i	1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	i	none	i	i
_	wet	1.6-3.3-4.9	6.7-6.7-6.7		į	i	İ	İ
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none	i	none	j	i
	wet	2.5-4.1-5.7	6.7-6.7-6.7		İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		i
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
						.		

Thiefriver (1 percent of the map unit)

	I	I	I		ı	ı	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-2.1-4.1	none		none		
Uanuar y	wet		6.7-6.7-6.7		 	l none		 
February	moist		2.0-2.6-4.9		 	l none		! !
cordary	wet		6.7-6.7-6.7		i	110110	i	i
March	moist		11.5-2.3-4.9		i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.5
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		į	İ	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	j	occasional	brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		[			
July	moist		1.6-3.0-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	!		!
November	moist		0.8-1.6-3.3		ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		1.3-2.0-3.9	none	!	none	ļ	!
	wet	1.3-2.0-3.9	6.7-6.7-6.7		!		!	!
	l					_	.	

### Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I57B Sandberg-Radium complex, 1 to 6 percent slopes

Sandberg (50 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
	. [				ļ	ļ	ļ	ļ
			! !		!	!	!	!
January	moist		6.7-6.7-6.7	none		none		
February	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
May	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
November	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		

Radium (25 percent of the map unit)

Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
	Status	L-R-H	depcn    L-R-H	rrequency	duracion	Irequency	duration	L-R-H
	!	L - K - п	I г-к-т		 	l I	l I	I г - к - п
		l ————————————————————————————————————	l		l ————————————————————————————————————	l	l	l ————————————————————————————————————
January	moist	  0.0-0.0-0.0	  4.9-5.4-6.7	none	 	l none	! 	
	wet		6.7-6.7-6.7		! 	İ	i	i
February	moist	0.0-0.0-0.0	5.7-6.2-6.7	none	i	none	i	i
_	wet	5.7-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	i	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	2.1-3.0-4.9	none		none		
	wet	2.1-3.0-4.9	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.6-3.8-5.7	none		none		
	wet	2.6-3.8-5.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	3.3-4.4-6.7					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7			none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		
	moist		6.7-6.7-6.7					
September			0.0-0.0-0.7	none		none		
	moist		4.1-4.9-6.7			!	!	!
	wet		6.7-6.7-6.7			!	!	!
October	moist		3.3-4.6-6.7			none	ļ	!
_	wet		6.7-6.7-6.7			<u> </u>	<u> </u>	<u> </u>
November	moist		2.5-4.1-5.7			none	ļ	ļ
	wet		6.7-6.7-6.7					
December	moist		4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7					
	.	l				l	l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I57B (continued)

Sioux (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H		į	İ		L - R - H
	.  	 	 			 	 	 
January	moist	0.0-0.0-0.0	6.7-6.7-6.7	none	i	none		i
February	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
May	dry	0.0-0.0-0.0	0.0-0.0-0.2	none		none		
	moist	0.0-0.0-0.2	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7		[			
July	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7		[			
August	dry	0.0-0.0-0.0	0.0-0.0-1.1	none		none		
	moist	0.0-0.0-1.1	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7		[			
October	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	6.7-6.7-6.7		[			
November	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
	moist	0.0-0.0-0.0	6.7-6.7-6.7		[			
	moist	0.0-0.0-0.0	6.7-6.7-6.7		[			
		l				l	l	l

Oylen (7 percent of the map unit)

L - R - H   L -	nding
January	lepth
wet   4.9-5.4-6.7   6.7-6.7-6.7	R - F
February   moist   0.0-0.0-0.0   5.7-6.2-6.7   none     none         wet   5.7-6.2-6.7   6.7-6.7-6.7       March   moist   0.0-0.0-0.0   3.3-4.1-6.7   none     none       wet   3.3-4.1-6.7   6.7-6.7-6.7       April   moist   0.0-0.0-0.0   2.1-3.0-4.9   none     none       wet   2.1-3.0-4.9   6.7-6.7-6.7       May   moist   0.0-0.0-0.0   2.6-3.8-5.7   none     none       wet   2.6-3.8-5.7   6.7-6.7-6.7       June   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none       moist   0.0-0.0-0.3   3.3-4.4-6.7       wet   3.3-4.4-6.7   6.7-6.7-6.7       July   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   6.7-6.7-6.7       August   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       September   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   4.1-4.9-6.7       wet   4.1-4.9-6.7   6.7-6.7-6.7       wet   4.1-4.9-6.7   6.7-6.7-6.7       October   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none	
wet   5.7-6.2-6.7   6.7-6.7-6.7	
March   moist   0.0-0.0-0.0   3.3-4.1-6.7   none     none       wet   3.3-4.1-6.7   6.7-6.7-6.7     April   moist   0.0-0.0-0.0   2.1-3.0-4.9   none     none       wet   2.1-3.0-4.9   6.7-6.7-6.7     May   moist   0.0-0.0-0.0   2.6-3.8-5.7   none     none       wet   2.6-3.8-5.7   6.7-6.7-6.7     June   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none       moist   0.0-0.0-0.3   3.3-4.4-6.7     wet   3.3-4.4-6.7   6.7-6.7-6.7     July   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   6.7-6.7-6.7     August   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   6.7-6.7-6.7     September   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   4.1-4.9-6.7     wet   4.1-4.9-6.7   6.7-6.7-6.7	
wet   3.3-4.1-6.7   6.7-6.7-6.7	
April   moist   0.0-0.0-0.0   2.1-3.0-4.9   none     none       wet   2.1-3.0-4.9   6.7-6.7-6.7           May   moist   0.0-0.0-0.0   2.6-3.8-5.7   none     none       wet   2.6-3.8-5.7   6.7-6.7-6.7           June   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none       moist   0.0-0.0-0.3   3.3-4.4-6.7           wet   3.3-4.4-6.7   6.7-6.7-6.7           July   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   6.7-6.7-6.7         August   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-0.1   6.7-6.7-6.7         September   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   4.1-4.9-6.7         wet   4.1-4.9-6.7   6.7-6.7-6.7           October   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none	
wet   2.1-3.0-4.9   6.7-6.7-6.7	
May   moist   0.0-0.0-0.0   2.6-3.8-5.7   none     none       wet   2.6-3.8-5.7   6.7-6.7-6.7         June   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none       moist   0.0-0.0-0.3   3.3-4.4-6.7         wet   3.3-4.4-6.7   6.7-6.7-6.7         July   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   6.7-6.7-6.7         August   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   6.7-6.7-6.7         September   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   4.1-4.9-6.7         wet   4.1-4.9-6.7   6.7-6.7-6.7         October   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none	
wet   2.6-3.8-5.7   6.7-6.7-6.7	
Tune   dry   0.0-0.0-0.0   0.0-0.0-0.3   none     none       moist   0.0-0.0-0.3   3.3-4.4-6.7             wet   3.3-4.4-6.7   6.7-6.7-6.7           July   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   6.7-6.7-6.7             Jugust   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   6.7-6.7-6.7             Jugust   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       Moist   0.0-0.0-0.7   4.1-4.9-6.7             Met   4.1-4.9-6.7   6.7-6.7-6.7             Doctober   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none	
moist   0.0-0.0-0.3   3.3-4.4-6.7	
wet   3.3-4.4-6.7   6.7-6.7-6.7	
Tuly   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   6.7-6.7-6.7           August   dry   0.0-0.0-0.0   0.0-0.0-1.0   none     none       moist   0.0-0.0-1.0   6.7-6.7-6.7           September   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none       moist   0.0-0.0-0.7   4.1-4.9-6.7           wet   4.1-4.9-6.7   6.7-6.7-6.7         Doctober   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none	
moist   0.0-0.0-0.7   6.7-6.7-6.7	
August   dry   0.0-0.0-0.0 0.0-0.0-1.0  none     none       moist   0.0-0.0-1.0 6.7-6.7-6.7            September   dry   0.0-0.0-0.0 0.0-0.0-0.7  none     none       moist   0.0-0.0-0.7 4.1-4.9-6.7            wet   4.1-4.9-6.7 6.7-6.7-6.7            October   moist   0.0-0.0-0.0 3.3-4.6-6.7  none     none	
moist   0.0-0.0-1.0   6.7-6.7-6.7	
September   dry   0.0-0.0-0.0   0.0-0.0-0.7   none     none	
moist  0.0-0.0-0.7 4.1-4.9-6.7	
wet  4.1-4.9-6.7 6.7-6.7-6.7	
October   moist   0.0-0.0-0.0   3.3-4.6-6.7   none     none	
wet  3.3-4.6-6.7 6.7-6.7	
November   moist   0.0-0.0-0.0 2.5-4.1-5.7   none     none	
wet  2.5-4.1-5.7 6.7-6.7	
December   moist   0.0-0.0-0.0   4.1-4.9-6.7   none     none	
wet  4.1-4.9-6.7 6.7-6.7-	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I57B (continued)

Flaming (5 percent of the map unit)

Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	Ponding	Ponding	Ponding
Month	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	L-R-H	Irequency	ddracion	Trequency	duracion	L-R-H
		L - K - H	L - K - H	 	 	! !	! !	L - K - H
		l ————————————————————————————————————	l	l ————————————————————————————————————	l <del></del>			l ————————————————————————————————————
January	moist	  0.0-0.0-0.0	4.6-5.4-6.7	l none	 	l none	i	i
_	wet	4.6-5.4-6.7	6.7-6.7-6.7	İ	<u>.</u>	i	i	İ
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none		none	j	i
	wet	5.2-6.2-6.7	6.7-6.7-6.7	İ	İ	į	į	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none	i	none	j	j
	wet	3.3-4.1-6.7	6.7-6.7-6.7	İ	İ	İ	İ	İ
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none	j	i
	wet	2.1-2.5-6.7	6.7-6.7-6.7			ĺ	ĺ	ĺ
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none	j	i
	wet	2.5-2.8-5.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	1		0.0-0.0-0.3			none		
	moist		4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7	•		none		
	wet		6.7-6.7-6.7					
November	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7	•			[	<u> </u>
December	moist		4.1-4.9-6.7	•		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7			ļ	ļ	ļ
	l							

Garborg (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H					L - R - H
January	moist		2.6-3.3-5.9	none		none	ļ	
	wet		6.7-6.7-6.7			ļ	!	
February	moist		3.3-4.1-6.7	none		none	ļ	
	wet		6.7-6.7-6.7					
March	moist		2.6-3.3-5.7	none		none	ļ	
	wet		6.7-6.7-6.7					
April	moist		1.1-1.5-3.3	none		none		
	wet		6.7-6.7-6.7					
May	moist		1.5-1.8-4.1	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
	moist		2.0-2.5-4.9					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5	none		none		
	moist		2.6-4.9-6.2					
	wet	2.6-4.9-6.2	6.7-6.7-6.7					
August	dry		0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	2.3-3.0-5.7	none		none		
	wet	2.3-3.0-5.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.0-2.5-4.9	none		none	i	
	wet	2.0-2.5-4.9	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	2.3-3.0-5.2	none		none	i	
	wet	2.3-3.0-5.2	6.7-6.7-6.7				I	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I58A Seelyeville muck, 0 to 1 percent slopes

Seelyeville (90 percent of the map unit)

Month	  Moisture	Top	   Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į I	L-R-H	L-R-H		 	İ	İ	L - R - H 
January	moist		0.5-1.0-3.3	none		 	long	0.0-0.3-0.
oanuar y	wet		6.7-6.7-6.7		 	l	IONG	1
February	moist		11.3-1.6-4.1		! 	occasional	llong	10.0-0.3-0.
2 022 002 7	wet		6.7-6.7-6.7		i		20119	
March	moist		0.0-0.0-2.5		i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7		i	İ	i	i
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	j	frequent	long	0.0-0.5-1.
	wet	0.0-0.0-0.8	6.7-6.7-6.7		İ	İ	İ	İ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none	j	frequent	long	0.0-0.5-1.
	wet	0.0-0.0-1.3	6.7-6.7-6.7		[		1	
June	moist		0.0-0.3-1.6			frequent	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
July	moist		0.0-0.8-2.5			occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		ļ		1	!
August	moist		0.5-1.6-3.3		ļ	occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7				!	
September			0.3-1.1-3.0		ļ	occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
October	moist		0.0-0.5-2.5   6.7-6.7-6.7			occasional	brief	0.0-0.3-0.
	wet		0.0-0.3-1.6		 	  occasional	1 1	
November	moist   wet		0.0-0.3-1.6   6.7-6.7-6.7			loccasional	long	0.0-0.3-0.
December	wet   moist		0.5-0.8-2.5		] 	  occasional	   long	  0.0-0.3-0.!
December	moist   wet		0.5-0.8-2.5   6.7-6.7-6.7			l	l rong	1
	l wer	0.5-0.6 <b>-</b> 2.5	0 . / - 0 . / <b>- 0</b> . /   		! !	1		
	I ————	l ————				_	· I ————	l ————

Cathro (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
						-	ļ	ļ
January	   moist	  0.0-0.0-0.0	0.5-1.3-3.3	none		  occasional	llong	  0.0-0.3-0.
_	wet	0.5-1.3-3.3	6.7-6.7-6.7		i	i	i	i
February		0.0-0.0-0.0		none	i	occasional	long	0.0-0.3-0.
	wet	1.3-2.1-4.1	6.7-6.7-6.7		İ	į	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7					
May			0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
			6.7-6.7-6.7					
June	moist		0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
July			0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7		!	1		
August			0.8-1.6-3.3			rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7		!			!
September		0.0-0.0-0.0		none		rare	brief	0.0-0.3-0.
_		0.3-1.1-3.0						
October			0.2-0.5-2.5	none	ļ	occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
November			0.0-0.3-1.6	none		occasional	long	0.0-0.3-0.
	wet	0.0-0.3-1.6				1	1	
December	moist		0.5-0.8-2.5	none		occasional	long	0.0-0.3-0.
	wet	0.5-0.8-2.5	6.7-6.7-6.7		!	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I58A (continued)

Dora (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  0.5-1.3-3.3	none	 	  occasional	long	    0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7			1		
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April	moist		0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.0-1.6	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7			1		
July	moist		0.2-0.8-2.5	none	ļ	rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ.		
August	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ	!	
September	moist		0.3-1.1-3.0	none		rare	brief	0.0-0.3-0.5
0 1 1	wet		6.7-6.7-6.7			1	1 2001.6	
October	moist		0.2-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7   0.0-0.3-1.6		 		1 1	 
November	moist			none		occasional	long	0.0-0.3-0.5
December	wet   moist		6.7-6.7-6.7   0.5-0.8-2.5	nono	 	  occasional	   long	  0.0-0.3-0.5
Jecember	moist   wet	0.5-0.8-2.5		none	<u></u>	loccasionai	l rong	10.0-0.3-0.5

Markey (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 	L - R - H 
January	moist	0.0-0.0-0.0	    0.5-1.3-3.3	none	i I	  occasional	long	    0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	j	occasional	long	0.0-0.3-0.5
	wet	1.3-2.1-4.1	6.7-6.7-6.7		[			
March			0.0-0.0-2.5			occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7					
			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7		!			!
June			0.0-0.0-1.6		ļ	occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7				 	
August			0.8-1.6-3.3   6.7-6.7-6.7			rare	very brier	0.0-0.3-0.5
September			0.7-6.7-6.7   0.3-1.1-3.0		l i	   rare	   brief	  0.0-0.3-0.5
september			0.3-1.1-3.0   6.7-6.7-6.7			rare	l prier	1
October			0.7-0.7-0.7   0.2-0.5-2.5		 	  occasional	   brief	  0.0-0.3-0.5
occoper			6.7-6.7-6.7		 		Dilei	0.0-0.5-0.
November			0.0-0.3-1.6		¦	occasional	long	  0.0-0.3-0.5
			6.7-6.7-6.7		i			
December			0.5-0.8-2.5		i	occasional	long	0.0-0.3-0.5
			6.7-6.7-6.7		i			
	i		i ' '		i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I58A (continued)

Berner (1 percent of the map unit)

L - R - H   L - R - H	Ponding	ing	Ponding	Ponding	Flooding	Flooding	Bottom	Top	Moisture	Month
January	depth	tion	duration	frequency	duration	frequency	depth	depth	status	
wet	- R - H		1	1			L - R - H	L - R - H		
wet			.	<u> </u>					l	
wet		ļ	1	[						
February   moist   0.0-0.0-0.0   1.3-2.1-4.1   none     occasional   long   0.0   wet   1.3-2.1-4.1   6.7-6.7-6.7	0-0.3-0.5	ng	long	occasional		none				January
wet										
March         moist           0.0-0.0-0.0   0.0-0.0-2.5   none            occasional   long   0.0   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional   long   occasional										
April moist   0.0-0.0-0.0   0.0-0.0-0.8   none     frequent   long   0.0   wet   0.0-0.0-0.8   6.7-6.7-6.7	0-0.5-1.0	ng	long	occasional		none				March
wet										
May   moist   0.0-0.0-0.0   0.0-0.0-1.3   none     frequent   long   0.0   wet   0.0-0.0-1.3   6.7-6.7-6.7	0-0.5-1.0	ng	long	frequent		none				April
wet   0.0-0.0-1.3   6.7-6.7-6.7										
June   moist   0.0-0.0-0.0   0.0-0.0-1.6   none     occasional   brief   0.0     wet   0.0-0.0-1.6   6.7-6.7-6.7               July   moist   0.0-0.0-0.0   0.2-0.8-2.5   none     rare   very brief   0.0     wet   0.2-0.8-2.5   6.7-6.7-6.7             August   moist   0.0-0.0-0.0   0.8-1.6-3.3   none     rare   very brief   0.0     wet   0.8-1.6-3.3   6.7-6.7-6.7             September   moist   0.0-0.0-0.0   0.3-1.1-3.0   none     rare   brief   0.0     wet   0.3-1.1-3.0   6.7-6.7-6.7             October   moist   0.0-0.0-0.0   0.2-0.5-2.5   none     occasional   brief   0.0     wet   0.2-0.5-2.5   6.7-6.7-6.7             November   moist   0.0-0.0-0.0   0.0-0.3-1.6   none     occasional   long   0.0	0-0.5-1.0	ng	long	frequent		none				May
wet							6.7-6.7-6.7	0.0-0.0-1.3	wet	
July         moist           0.0-0.0-0.0   0.2-0.8-2.5   none           rare         very brief   0.0             wet   0.2-0.8-2.5   6.7-6.7-6.7	0-0.5-1.0	ef	brief	occasional		none	0.0-0.0-1.6	0.0-0.0-0.0	moist	June
wet   0.2-0.8-2.5   6.7-6.7-6.7							6.7-6.7-6.7	0.0-0.0-1.6	wet	
August   moist   0.0-0.0-0.0   0.8-1.6-3.3   none     rare   very brief   0.0       wet   0.8-1.6-3.3   6.7-6.7-6.7                 September   moist   0.0-0.0-0.0   0.3-1.1-3.0   none     rare   brief   0.0       wet   0.3-1.1-3.0   6.7-6.7-6.7                 October   moist   0.0-0.0-0.0   0.2-0.5-2.5   none     occasional   brief   0.0       wet   0.2-0.5-2.5   6.7-6.7-6.7                 November   moist   0.0-0.0-0.0   0.0-0.3-1.6   none     occasional   long   0.0       wet   0.0-0.3-1.6   6.7-6.7-6.7	0-0.3-0.5	brief	very brie	rare						July
wet   0.8-1.6-3.3   6.7-6.7-6.7							6.7-6.7-6.7	0.2-0.8-2.5	wet	
September   moist   0.0-0.0-0.0   0.3-1.1-3.0           none             rare   brief   0.0             wet   0.3-1.1-3.0   6.7-6.7-6.7   October   moist   0.0-0.0-0.0   0.2-0.5-2.5           none     occasional   brief   0.0             wet   0.2-0.5-2.5   6.7-6.7-6.7                               November   moist   0.0-0.0-0.0   0.0-0.3-1.6           none     occasional   long   0.0             wet   0.0-0.3-1.6   6.7-6.7-6.7	0-0.3-0.5	brief	very brie:	rare		none	0.8-1.6-3.3	0.0-0.0-0.0	moist	August
wet   0.3-1.1-3.0   6.7-6.7-6.7				[			6.7-6.7-6.7	0.8-1.6-3.3	wet	
October         moist           0.0-0.0-0.0   0.2-0.5-2.5   none           occasional   brief   0.0             wet           0.2-0.5-2.5   6.7-6.7-6.7   November           moist     0.0-0.0-0.0   0.0-0.3-1.6   none       occasional   long   0.0             wet           0.0-0.3-1.6   6.7-6.7-6.7	0-0.3-0.5	ef	brief	rare		none	0.3-1.1-3.0	0.0-0.0-0.0	moist	September
wet   0.2-0.5-2.5   6.7-6.7-6.7				[			6.7-6.7-6.7	0.3-1.1-3.0	wet	
November   moist   0.0-0.0-0.0   0.0-0.3-1.6   none     occasional   long   0.0   wet   0.0-0.3-1.6   6.7-6.7-6.7	0-0.3-0.5	ef	brief	occasional		none	0.2-0.5-2.5	0.0-0.0-0.0	moist	October
wet  0.0-0.3-1.6 6.7-6.7-6.7				[			6.7-6.7-6.7	0.2-0.5-2.5	wet	
	0-0.3-0.5	ng	long	occasional		none	0.0-0.3-1.6	0.0-0.0-0.0	moist	November
December   moist   0.0-0.0-0.0 0.5-0.8-2.5  none     locasional   long   0.0			1	1			6.7-6.7-6.7	0.0-0.3-1.6	wet	
200000001   100000   10	0-0.3-0.5	ng	long	occasional		none	0.5-0.8-2.5	0.0-0.0-0.0	moist	December
wet  0.5-0.8-2.5 6.7-6.7-6.7			1	1			6.7-6.7-6.7	0.5-0.8-2.5	wet	

I59A Smiley loam, 0 to 2 percent slopes

Smiley (65 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	j I	L-R-H	L-R-H		i I	İ	į I	   L-к-н 
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none	 	none		 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		i	İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	j	none	j	j
	wet	2.5-3.3-4.9	6.7-6.7-6.7		Ì	İ	İ	ĺ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none		
	wet	1.3-2.1-3.3						
April	moist		0.0-0.5-2.5	none	ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ	ļ	
May	moist		0.3-0.8-3.3	none	ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!			
June	moist		0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		ļ	ļ	ļ	
July	moist   wet		1.6-3.0-4.9   6.7-6.7-6.7	none		none		
August	wet   moist		0.7-6.7-6.7   2.5-3.8-5.7	none	 		!	
August	moist   wet		2.5-3.8-5.7   6.7-6.7-6.7	none		none		
September			2.0-3.3-4.9	none	<u> </u>	   rare	  very brief	  0.0-0.3-0.5
Бересмыет	wet		6.7-6.7-6.7	110110	i i	1410		1
October	moist		1.3-1.6-4.1	none	i	rare	  verv brief	  0.0-0.3-0.!
0000202	wet		6.7-6.7-6.7		i			
November	moist	0.0-0.0-0.0		none	i	occasional	brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7		i	İ	i	İ
December	moist		1.3-2.1-3.8	none	i	none	j	i
	wet	1.3-2.1-3.8	6.7-6.7-6.7		İ	İ	İ	İ
	l	li			I		l	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I59A (continued)

Smiley, very cobbly (10 percent of the map unit)

Mambh	   Madestone		l Dotton	ml	=1		Damaiana	 
Month	Moisture   status		Bottom	Flooding	Flooding duration	Ponding	Ponding   duration	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - к - н	L - к - н		l i	 	 	L - к - н
		l ————————————————————————————————————			l	l ————————————————————————————————————		
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	l none	 	l 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		<u> </u> 	i	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none	j	
	wet	1.3-2.1-3.3	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.3-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
September	moist		2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					

Kratka (9 percent of the map unit)

	1				<u> </u>	1		
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L - R - H	L-R-H		İ	į	j	L-R-H
							l	l
_								
January	moist		1.6-3.0-4.1			none		ļ
_	wet		6.7-6.7-6.7			!	!	!
February	moist		2.5-3.3-4.9			none	!	!
	wet		6.7-6.7-6.7			!		
March	moist		1.6-2.1-4.1	none		none		
	wet		6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7				1	
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none	i	i
	wet	1.6-3.3-4.9	6.7-6.7-6.7		İ	İ	İ	İ
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none	j	i
_	wet	2.5-4.1-5.7	6.7-6.7-6.7		İ	į	i	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none	i	i
-	wet	1.6-3.3-4.9	6.7-6.7-6.7		<u> </u> 	i	i	i
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none	i	rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7		i I	i		
November	moist		0.8-1.6-3.3			rare	verv brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7		i I			
December	moist		11.3-2.1-3.8		' 	l none		i
DCCCMDGI	wet		6.7-6.7-6.7	110116	I	1 22016		 
	l wer	1.5-2.1-3.6	0 • 7 = 0 • 7 = 0 • 7   		 	I I	I I	l I
	1	ı			ı	i .	1	I .

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I59A (continued)

Roliss (5 percent of the map unit)

						l	l	l
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
	ļ					ļ	ļ	
January	moist		1.6-3.0-4.1			none		
		1.6-3.0-4.1						
February	moist	0.0-0.0-0.0				none		
	wet	2.5-3.3-4.9						
March	moist		1.3-2.1-3.3			none		
		1.3-2.1-3.3						
April	moist	0.0-0.0-0.0				occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0				occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist	0.0-0.0-0.0				occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1						
July	moist		1.6-3.0-4.9			none		
	wet	1.6-3.0-4.9						
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7						
September	moist	0.0-0.0-0.0	2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
	wet	2.0-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0				rare	very brief	0.0-0.3-0.5
	wet	1.3-1.6-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7			[		
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7			[		
	l					l	l	

Reiner (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
į	status	depth	depth	frequency	duration	frequency	duration	depth
I		L - R - H	L - R - H		 	 	 	L - R - E 
January	moist	0.0-0.0-0.0	4.1-5.4-6.7	none		none	   	   
		4.1-5.4-6.7					i I	i I
ebruary			4.9-5.9-6.7	none		none	i	
i	wet	4.9-5.9-6.7	6.7-6.7-6.7		İ	i	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none	i	i
i	wet	3.3-4.9-6.7	6.7-6.7-6.7			İ	İ	ĺ
April	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
ĺ	wet	1.6-2.5-4.1	6.7-6.7-6.7			İ	ĺ	ĺ
May	moist	0.0-0.0-0.0	2.1-2.8-4.9	none		none		
I	wet	2.1-2.8-4.9	6.7-6.7-6.7					l
June	moist	0.0-0.0-0.0	2.6-3.1-5.7	none		none		
I	wet	2.6-3.1-5.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
I			3.3-5.7-6.7					
I			6.7-6.7-6.7					
August	_		0.0-0.0-0.5	none		none		
I	moist	0.0-0.0-0.5						
l	wet		6.7-6.7-6.7					
September	_		0.0-0.0-0.3	none		none	ļ	ļ
			3.6-4.9-6.7			!	!	l
		3.6-4.9-6.7					!	ļ
october			3.0-4.3-5.7	none		none	ļ	!
. , !		3.0-4.3-5.7						l
November		0.0-0.0-0.0		none		none		
			6.7-6.7-6.7					l
December		0.0-0.0-0.0		none		none		
ı	wet	3.3-4.6-5.7	0.7-6.7-6.7		I	I	I	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I59A (continued)

Linveldt (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
j	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H				 	L - R - H
						- <u> </u>		 
January	moist wet		4.8-5.4-6.7   6.7-6.7-6.7	none		none		
February	moist		6.7-6.7-6.7   5.2-5.7-6.7	none		l none	! !	! 
rebruary	wet		6.7-6.7-6.7	none		none	 	i
March	moist		3.3-4.6-6.7	none		l none	! 	! !
	wet		6.7-6.7-6.7	110110			i	i
April	moist		1.3-2.5-4.9	none		none	i	i
- i	wet	1.3-2.5-4.9	6.7-6.7-6.7			İ	İ	İ
May	moist	0.0-0.0-0.0	2.0-3.0-5.6	none		none	j	j
ĺ	wet	2.0-3.0-5.6	6.7-6.7-6.7	ĺ		İ	ĺ	ĺ
June	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	2.6-3.6-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
	moist		3.9-5.4-6.7				!	!
	wet		6.7-6.7-6.7				!	!
August	dry		0.0-0.0-1.0	none		none	ļ	!
	moist		5.4-6.7-6.7					
			6.7-6.7-6.7					
September	dry moist		0.0-0.0-0.3   4.1-4.6-6.7	none		none		
	wet		4.1-4.8-6.7   6.7-6.7-6.7			I I	l I	! !
October	moist		3.6-3.9-6.7	none		l none	! !	¦
CCODEL	wet		6.7-6.7-6.7	none		l	I	 
November	moist		2.5-3.3-5.7	none		l none	¦ 	i
	wet		6.7-6.7-6.7				i	i
December	moist		3.9-4.6-6.2	none		none	i	i
	wet	3.9-4.6-6.2	6.7-6.7-6.7			i	i	i

Smiley, depressional (3 percent of the map unit)

Month	  Moisture	l Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
MOIICII	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H	licquoncy				L - R - H
January	moist		0.8-1.6-3.0	none		    occasional	l long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		İ		-55	 
February	moist	0.0-0.0-0.0	1.6-2.5-3.3	none	i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-3.3	6.7-6.7-6.7					1
March	moist		0.0-0.0-1.6			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
April   moist			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		!	ļ	!	!
May	:		0.0-0.0-1.6		!	frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7				!	
June	moist		0.2-0.8-2.5			occasional	brief	0.0-0.5-1.0
T7			6.7-6.7-6.7				 	
July	moist   wet		0.8-1.6-3.0 6.7-6.7-6.7			rare	very brief	0.0-0.3-0.5
August			11.6-2.1-3.3		l I	   rare	l	  0.0-0.3-0.5
August			6.7-6.7-6.7		 	rare	Age A prier	1
September			0.8-1.6-3.0		 	   rare	   brief	  0.0-0.3-0.5
Береспьет	wet		6.7-6.7-6.7		! I	1	51101	1
October	moist		0.5-1.3-2.5			occasional	brief	10.0-0.3-0.5
	wet		6.7-6.7-6.7		İ	i		İ
November	moist	0.0-0.0-0.0	0.2-0.5-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet	0.2-0.5-1.6	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	long	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7			1		l
	.					.		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I59A (continued)

Strandquist (1 percent of the map unit)

Month	  Moisture	Top	Bottom	Flooding	   Flooding	Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	j	L - R - H	L - R - H			į	i	L-R-H
						İ	İ	İ
						ĺ	ĺ	ĺ
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none		none		
	wet	1.6-3.0-4.1	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7				[	
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May			0.5-0.8-3.3			occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.6-4.1			rare	very brief	0.0-0.3-0.5
	•		6.7-6.7-6.7					
July			1.6-3.3-4.9			none		
			6.7-6.7-6.7					
August			2.5-4.1-5.7			none		
	•		6.7-6.7-6.7					
September	•		1.6-3.3-4.9			none		
			6.7-6.7-6.7					
October	•		1.3-2.5-4.1			rare	very brief	0.0-0.3-0.5
	•		6.7-6.7-6.7				ļ	
November			0.8-1.6-3.3			none		
	•		6.7-6.7-6.7					
December	•		1.3-2.1-3.8			none		ļ
	wet	1.3-2.1-3.8	6.7-6.7-6.7				I	

I60A Smiley mucky loam, depressional, 0 to 1 percent slopes

Smiley, depressional (80 percent of the map unit)

	I	I .			l			I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L-R-H		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  0.8-1.6-3.0	none	 	occasional	llong	  0.0-0.5-1.0
2	wet		6.7-6.7-6.7		i		5	
February	moist		1.6-2.5-3.3		i	occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-3.3	6.7-6.7-6.7		ĺ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist		0.0-0.0-1.6		ļ	frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7		!			!
June	moist		0.2-0.8-2.5		ļ	occasional	brief	0.0-0.5-1.0
T-1	wet   moist		6.7-6.7-6.7				 	
July	moist   wet		0.8-1.6-3.0   6.7-6.7-6.7			rare	very brier	0.0-0.3-0.5
August	wet   moist		1.6-2.1-3.3		! !	   rare	lucry briof	  0.0-0.3-0.5
August	wet		1.0-2.1-3.3   6.7-6.7-6.7		 i	l rare	   AGIA DITEL	0.0-0.3-0.5
September			0.8-1.6-3.0		i	rare	   brief	  0.0-0.3-0.5
	wet		6.7-6.7-6.7		i			i
October	moist		0.5-1.3-2.5		i	occasional	brief	0.0-0.3-0.5
	wet	0.5-1.3-2.5	6.7-6.7-6.7		İ	i	i	İ
November	moist	0.0-0.0-0.0	0.2-0.5-1.6	none	j	occasional	long	0.0-0.5-1.0
	wet	0.2-0.5-1.6	6.7-6.7-6.7		ĺ	İ	İ	ĺ
December	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	long	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7					
						.		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I60A (continued)

Smiley (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
ľ	status	depth	depth	frequency	duration	frequency	duration	depth
I	 	L-R-H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	 	   none		 
- ;	wet	1.6-3.0-4.1	6.7-6.7-6.7		i	i	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	i
İ	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none		
ľ	wet	1.3-2.1-3.3	6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
ľ	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist		0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
ľ	wet		6.7-6.7-6.7					
June	moist		0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
July	moist		1.6-3.0-4.9	none	!	none	ļ	
ļ			6.7-6.7-6.7			!	!	
August	moist		2.5-3.8-5.7	none		none	ļ	
	wet		6.7-6.7-6.7			!		
September	moist		2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
0 1 1-	wet		6.7-6.7-6.7				 	
October	moist wet		1.3-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
November	wet   moist		6.7-6.7-6.7   0.8-1.3-3.3		 	  occasional	   brief	  0.0-0.3-0.5
November	moist   wet		0.8-1.3-3.3   6.7-6.7-6.7	none		loccasional	Driei	0.0-0.3-0.5
December	wet   moist		1.3-2.1-3.8	none	l I	l none	I I	l I
Secember		1.3-2.1-3.8		none		l none		- <b></b>

Hamre (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	[ [	L - R - H	L - R - H		ļ	1	l	L - R - H
						·		
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.3	none	 	  occasional	l long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		ĺ	İ		ĺ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			ļ		
August			0.8-1.6-3.3		ļ	rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	1		
September	moist		0.5-1.3-3.0		ļ	occasional	brief	0.0-0.3-0.5
_			6.7-6.7-6.7					
October			0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7			!	! -	
November	: :		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
_	wet		6.7-6.7-6.7			!	! -	
December	: :		0.5-1.3-2.5			occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					l i
	l ————————————————————————————————————	l	l —————		l ————	- I ——————	I	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I60A (continued)

Kratka (5 percent of the map unit)

Month			Dotton	Flooding	   Flooding	Ponding	Ponding	Ponding
Month	Moisture   status	Top depth	Bottom depth	frequency	duration	frequency	duration	depth
	status	L-R-H	L-R-H	rrequency	duration	frequency	duration	L-R-H
	I I	L - K - п	т - к - н	 	 	l I	l I	L - K - д
		l ————————————————————————————————————	l	l	l ————————————————————————————————————	 		l ————————————————————————————————————
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	¦	 
_	wet	1.6-3.0-4.1	6.7-6.7-6.7		<u> </u> 	i	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
-	wet	2.5-3.3-4.9	6.7-6.7-6.7	İ	:	i	i	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none	i	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7	ĺ	İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	l					l	l	

I61A Strandquist loam, 0 to 2 percent slopes

Strandquist (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   		 		 	L - R - H 
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none		none		   
0 4114417			6.7-6.7-6.7		İ		i	i
February	moist		2.5-3.3-4.9	none	i	none	i	i
_	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	i	i	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		i
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
April	moist		0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			ļ	ļ	
June			0.8-1.6-4.1	none	ļ	rare	very brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7		!	ļ	ļ	!
July	moist		1.6-3.3-4.9	none		none	ļ	
_	wet		6.7-6.7-6.7				ļ	
August	moist		2.5-4.1-5.7	none		none		
g l l	wet   moist		6.7-6.7-6.7   1.6-3.3-4.9				!	!
September	moist   wet		1.6-3.3-4.9   6.7-6.7-6.7	none	 	none		
October	wet   moist		0.7-6.7-6.7   1.3-2.5-4.1	none	l 	   rare	lucry briof	  0.0-0.3-0.5
occoper	wet		1.3-2.3-4.1   6.7-6.7-6.7	none	 	Tale	very prier	0.0-0.3-0.3
November	moist		0.7-0.7-0.7   0.8-1.6-3.3	none	! !	l none		! 
10 A GUIDGE	wet		6.7-6.7-6.7	110116	 I	1 110116		 
December	moist		1.3-2.1-3.8	none	i	none	i	i
	wet	1.3-2.1-3.8			i		i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I61A (continued)

Mavie (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		 
	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March			1.6-2.1-4.1	none		none		
			6.7-6.7-6.7					
- 1			0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May			0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.6-4.1	none	ļ	rare	very brief	0.0-0.3-0.5
_			6.7-6.7-6.7				!	
July			1.6-3.3-4.9	none		none		ļ
			6.7-6.7-6.7			ļ		
August			2.5-4.1-5.7	none		none		
g l l			6.7-6.7-6.7				!	
September			1.6-3.3-4.9   6.7-6.7-6.7	none	<del></del>	none		
October	wet     moist		0.7-0.7-0.7   1.3-2.5-4.1	none	l I	   rare	lucry brief	  0.0-0.3-0.5
occoper			1.3-2.3-4.1   6.7-6.7-6.7	none	 	Tale	very prier	0 • 0 - 0 • 3 - 0 • • 
November			0.7-0.7-0.7   0.8-1.6-3.3	none	! !	l none		l 
140 velimer			6.7-6.7-6.7	none	 	none		 
December			11.3-2.1-3.8	none	! 	l none		! 
			6.7-6.7-6.7	110110	! 			! 

Roliss (7 percent of the map unit)

				<u> </u>	1	1		
Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H	   	 	 	 	L-R-H
January	moist		1.6-3.0-4.1			none		
_			6.7-6.7-6.7	•		!	!	!
February			2.5-3.3-4.9	•		none	!	ļ
_	wet		6.7-6.7-6.7				!	!
March			1.3-2.1-3.3	•		none	!	ļ
			6.7-6.7-6.7	•				
April	moist		0.0-0.5-2.5	•	ļ	occasional	brief	0.0-0.3-0.5
	•		6.7-6.7-6.7	•	!		!	!
May	moist		0.3-0.8-3.3		ļ	occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7	•	!		!	!
June			0.7-1.3-4.1	•	ļ	occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	!	!	!
July	•		1.6-3.0-4.9		ļ	none	!	!
			6.7-6.7-6.7			!	ļ	
August	moist		2.5-3.8-5.7			none		
			6.7-6.7-6.7	•		!	ļ	
September			2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!	ļ	
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
November	moist		0.8-1.3-3.3	•		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•				
December	moist		1.3-2.1-3.8	•		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	1	I	1	1	I	1		I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I61A (continued)

Kratka (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   			 	 	L - R - H 
January	   moist	0.0-0.0-0.0	  1.6-3.0-4.1	none		none	i 	 
0 411441 7			6.7-6.7-6.7				i	i I
February			2.5-3.3-4.9	none		none		
_	wet	2.5-3.3-4.9	6.7-6.7-6.7			i	i	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none	j	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	į	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May			0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7			ļ	!	
July			1.6-3.3-4.9	none		none	ļ	ļ
			6.7-6.7-6.7			!		
August			2.5-4.1-5.7	none		none		
a t 1			6.7-6.7-6.7   1.6-3.3-4.9				!	
September			1.6-3.3-4.9   6.7-6.7-6.7	none	<del></del>	none		
October	moist		1.3-2.5-4.1	none		   rare	lucry briof	  0.0-0.1-0.3
OCCODEL			1.3-2.3-4.1   6.7-6.7-6.7	none	 i	Tale		0 • 0 - 0 • 1 - 0 • .
November			0.8-1.6-3.3	none		rare	  verv brief	  0.0-0.1-0.3
			6.7-6.7-6.7					
December			11.3-2.1-3.8	none		none		i
	wet		6.7-6.7-6.7		İ	i	i	İ
	i	i	i i		i	i	i	i

Foxhome (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   				 	L - R - F 
anuary	moist	0.0-0.0-0.0	 	none		none	   	   
		4.8-5.4-6.7					i	i
ebruary			5.2-5.7-6.7	none		none	i	i
_	wet	5.2-5.7-6.7	6.7-6.7-6.7		ĺ	i	i	į
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none	j	j
	wet	3.3-4.6-6.7	6.7-6.7-6.7			1	1	1
pril	moist	0.0-0.0-0.0	1.3-2.5-4.9	none		none		
	wet	1.3-2.5-4.9	6.7-6.7-6.7				[	1
lay	moist		2.0-3.0-5.6	none		none		
		2.0-3.0-5.6						
une			0.0-0.0-0.5	none		none		
		0.0-0.0-0.5				!	!	!
		2.6-3.6-6.2				!	!	!
July			0.0-0.0-0.7	none		none	ļ	ļ
	!		3.9-5.4-6.7			ļ	ļ	
	wet		6.7-6.7-6.7   0.0-0.0-1.0					
August	dry   moist		0.0-0.0-1.0   5.4-6.7-6.7	none	<del></del>	none		
		5.4-6.7-6.7			 	1	I I	l I
September		0.0-0.0-0.0				l none	¦	
CPCCMDCI			4.1-4.6-6.7	110110		1	i	i
			6.7-6.7-6.7			i	i	i
ctober			3.6-3.9-6.7			none	i	i
	wet		6.7-6.7-6.7			i	i	i
ovember	moist		2.5-3.3-5.7	none		none	i	i
	wet	2.5-3.3-5.7	6.7-6.7-6.7			İ	İ	İ
ecember	moist	0.0-0.0-0.0	3.9-4.6-6.2	none		none	j	i
	wet	3.9-4.6-6.2	6.7-6.7-6.7			1	I	I
	l					-l		l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I61A (continued)

Hangaard (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
					l		l	
January	moist		2.0-3.0-4.9			none		
	wet		6.7-6.7-6.7					
February	moist		2.5-3.3-5.7			none		
	wet		6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet		6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		rare	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	1.0-1.6-2.5	none		rare	very brief	0.0-0.1-0.3
	wet	1.0-1.6-2.5	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none		
	wet	1.6-2.5-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-3.3-5.7	none		none		
	wet	2.5-3.3-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.3-2.5-4.9	none		none		
	wet	1.3-2.5-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.0-2.1-4.1	none		none		
	wet	1.0-2.1-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
							l	

Northwood (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	[ [	L - R - H	L - R - H		ļ	1	l	L - R - H
						·		
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.3	none	 	  occasional	l long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		ĺ	İ		ĺ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			ļ		
August			0.8-1.6-3.3		ļ	rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	1		
September	moist		0.5-1.3-3.0		ļ	occasional	brief	0.0-0.3-0.5
_			6.7-6.7-6.7					
October			0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7			!	! -	
November	: :		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
_	wet		6.7-6.7-6.7			!	! -	
December	: :		0.5-1.3-2.5			occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					l i
	l ————————————————————————————————————	l	l —————		l ————	- I ——————	I	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I62A Syrene sandy loam, 0 to 2 percent slopes

Syrene (70 percent of the map unit)

	1		I .					
Month	  Moisture	   Top	Bottom	Flooding	Flooding	Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L-R-H	L - R - H		İ 	İ .l	İ .l	L - R - H 
January	moist	0.0-0.0-0.0	2.0-3.0-4.9	none	 	none		i i
_	wet	2.0-3.0-4.9	6.7-6.7-6.7		İ	i	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	i	none	j	j
	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
			6.7-6.7-6.7					1
April	moist		0.0-0.3-2.5			occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		1.0-1.6-2.5			rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7		!	!	!	!
July	moist		1.6-2.5-4.9			none	!	!
			6.7-6.7-6.7			!	!	!
August	moist		2.5-3.3-5.7		ļ	none		!
	wet		6.7-6.7-6.7					!
September			1.3-2.5-4.9   6.7-6.7-6.7			none		
October	wet   moist		11.0-2.1-4.1			l none	 	 
Jctober			1.0-2.1-4.1  6.7-6.7-6.7			none		
November	wet   moist		0.8-1.6-3.3		I I	l none		I I
40 vermer	moist   wet		6.7-6.7-6.7			I HOHE		 
December	wet   moist		11.6-2.1-4.1			l none		
Secember	wet		6.7-6.7-6.7		 	l mone	-3-	]
	#60							 
	1	I —————			I ———————	.	.	I —————

Rosewood (11 percent of the map unit)

		_		_, ,,				
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	ļ	L-R-H	L - R - H				ļ	L - R - H
	l	l	l					l
January	   moist	  0.0-0.0-0.0	  2.0-2.5-4.9	none	l I	   none		 
	wet		6.7-6.7-6.7		i		i	i
February	moist	•	2.5-3.3-5.7	none		none	i	i
_	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	i	į
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none	j	j
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					[
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7					1
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July			1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.9-5.7			none		
	wet		6.7-6.7-6.7				!	
September			1.3-3.0-4.9		ļ	none	ļ	!
			6.7-6.7-6.7		!	!		!
October	moist		1.0-2.1-4.1	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7			ļ	ļ	
November	!		0.8-1.6-3.3		ļ	none	!	!
	wet		6.7-6.7-6.7				Į.	
December	moist		1.3-2.1-4.1	none		none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7				1	!
	l				l	l	l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I62A (continued)

Hangaard (5 percent of the map unit)

	1	1	1			1		1
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 _	 .	L - R - H 
January	   moist	  0.0-0.0-0.0	  2.0-3.0-4.9	none	j 	none	j 	j I
_	wet	2.0-3.0-4.9	6.7-6.7-6.7		İ	i	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	j	none	j	j
	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	j	none		j
	wet	1.6-2.5-4.1	6.7-6.7-6.7		[			[
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		1.0-1.6-2.5	none		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7		!	!	ļ.	!
July	moist		1.6-2.5-4.9	none	ļ	none	!	!
_	wet		6.7-6.7-6.7				ļ	
August	moist		2.5-3.3-5.7	none		none		!
	wet		6.7-6.7-6.7		ļ		!	!
September			1.3-2.5-4.9	none		none		
October	wet		6.7-6.7-6.7   1.0-2.1-4.1				!	!
october	moist   wet		1.0-2.1-4.1   6.7-6.7-6.7	none		none		
November	wet   moist		0.8-1.6-3.3	none	i	l none		 
NO A SIMPSI	moist   wet		0.8-1.6-3.3   6.7-6.7-6.7	none		none		
December	wet   moist		1.6-2.1-4.1	none	! !	   none		! !
December	moist   wet		1.6-2.1-4.1   6.7-6.7-6.7	none		l none		
	l Mer	1 0 - 2 - 1 - 4 - 1	0 . / - 0 . / - 0 . /   		-	1	-	-
	l ————	l ————	l ————————————————————————————————————			_	· I —————	I —————

Karlsruhe (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
j	status	depth	depth	frequency	duration	frequency	duration	depth
i		L - R - H	L-R-H		 	İ -İ	   	L-R-E
  January	moist	  0.0-0.0-0.0	2.6-3.3-6.2	none	 	none	i I	j I
i	wet	2.6-3.3-6.2	6.7-6.7-6.7		İ	i	İ	İ
ebruary	moist	0.0-0.0-0.0	3.3-4.1-6.7	none	i	none	i	i
i	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	İ	İ	İ
farch	moist	0.0-0.0-0.0	2.6-3.3-5.9	none		none		i
ĺ	wet	2.6-3.3-5.9	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none		none		
I	wet	1.5-2.0-3.3	6.7-6.7-6.7					
fay	moist	0.0-0.0-0.0	1.8-2.5-4.1	none		none		
I	wet	1.8-2.5-4.1	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	2.5-3.0-4.9	none		none		
	wet	2.5-3.0-4.9	6.7-6.7-6.7					
Tuly	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
I	moist	0.0-0.0-0.3	3.0-3.6-6.7					
I	wet	3.0-3.6-6.7	6.7-6.7-6.7					
ugust	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
I	moist	0.0-0.0-0.5	4.1-6.7-6.7					
I	wet	4.1-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
I	moist	0.0-0.0-0.3	2.6-4.1-6.7					
I	wet	2.6-4.1-6.7	6.7-6.7-6.7					
ctober	moist		3.0-4.3-5.7	none		none		
I	wet	3.0-4.3-5.7	6.7-6.7-6.7					
ovember	moist	0.0-0.0-0.0		none		none		
I	wet	2.0-2.5-4.9						
December	moist	0.0-0.0-0.0	2.3-3.0-5.6	none		none		
I	wet	2.3-3.0-5.6	6.7-6.7-6.7		1		1	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I62A (continued)

Deerwood (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L-R-H		 		 	L - R - H 
January	moist		0.8-1.6-3.3	none		 	long	0.0-0.5-1.0
January	wet		6.7-6.7-6.7	none	 	l	l 10119	1
February	wec   moist		1.6-2.5-4.1	none	! 	occasional	llong	  0.0-0.5-1.
			6.7-6.7-6.7		İ			
March	moist		0.0-0.0-2.5	none	i	occasional	long	0.0-0.5-1.
	wet	0.0-0.0-2.5	6.7-6.7-6.7		İ	i	i	į
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none	j	frequent	long	0.0-0.5-1.
	wet	0.0-0.0-0.8	6.7-6.7-6.7		ĺ	İ	İ	ĺ
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
	wet		6.7-6.7-6.7			1		1
June	moist		0.0-0.5-1.6	none		frequent	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7			Ţ		[
July	moist		0.2-0.8-2.5	none	!	rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			ļ	!	
August	moist		0.8-1.6-3.3	none		rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7				1 1	
September	moist wet		0.5-1.3-3.0   6.7-6.7-6.7	none		occasional	brief	0.0-0.3-0.
October	wet   moist		0.7-6.7-6.7   0.3-0.8-2.5	none	l I	  occasional	   brief	  0.0-0.5-1.
occoper	wet		6.7-6.7-6.7	none	 	l	l prier	1
November	wec   moist		0.0-0.3-1.6	none	 	loccasional	llong	  0.0-0.5-1.
	wet		6.7-6.7-6.7		i I			
December	moist		0.5-1.3-2.5	none	i	loccasional	long	  0.0-0.5-1.
	wet	0.5-1.3-2.5			i		i	

Hamar (3 percent of the map unit)

	1	I	I I			1	I	
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H
January	moist			none		none		
Uanuar y	wet		2.0-2.3-4.9   6.7-6.7-6.7			l none		
February	moist		2.5-3.3-5.7			none		
r cor dar y	wet		6.7-6.7-6.7			10110	i	;
March	moist		11.6-2.1-4.1			l none	i	i
	wet		6.7-6.7-6.7		i		i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		İ	i	İ	į
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.9-5.7			none		
	wet		6.7-6.7-6.7					
September			1.3-3.0-4.9			none		
	wet		6.7-6.7-6.7					!
October	moist		1.0-2.1-4.1			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!		!	!
November	moist		0.8-1.6-3.3			none	ļ	ļ
	wet		6.7-6.7-6.7		!	ļ	!	ļ.
December	moist		1.3-2.1-4.1	none	ļ	none	ļ	!
	wet	1.3-2.1-4.1	6.7-6.7-6.7			!	!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I62A (continued)

Strandquist (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	 	   none	i 	 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		į	i	į	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	•		6.7-6.7-6.7					
July	moist		1.6-3.3-4.9	none	ļ	none		
	•		6.7-6.7-6.7		!	!	!	
August	moist		2.5-4.1-5.7	none	ļ	none		
_	wet		6.7-6.7-6.7			!	!	
September	moist		1.6-3.3-4.9	none		none		
	•		6.7-6.7-6.7			!		
October	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.3-0.5
November	wet   moist		6.7-6.7-6.7   0.8-1.6-3.3		 			 
November			0.8-1.6-3.3   6.7-6.7-6.7	none		none		
December	wet   moist		6.7-6.7-6.7     1.3-2.1-3.8		 			 
recember.		1.3-2.1-3.8		none	!	none	!	!

Radium (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L-R-H	L - R - H   			 -	 	L - R - H 
January	moist	0.0-0.0-0.0	  4.9-5.4-6.7	none	 	none	i I	i I
-	wet	4.9-5.4-6.7	6.7-6.7-6.7		İ	İ	i	i
ebruary	moist	0.0-0.0-0.0	5.7-6.2-6.7	none		none	j	i
	wet	5.7-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7					l
April	moist	0.0-0.0-0.0	2.1-3.0-4.9	none		none		
	wet	2.1-3.0-4.9	6.7-6.7-6.7					
May   	moist	0.0-0.0-0.0	2.6-3.8-5.7	none		none		
	wet	2.6-3.8-5.7	6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
			3.3-4.4-6.7					
			6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
			6.7-6.7-6.7					
August			0.0-0.0-1.0	none		none	!	!
			6.7-6.7-6.7				!	!
September			0.0-0.0-0.7	none		none		ļ
			4.1-4.9-6.7					!
			6.7-6.7-6.7					
October	moist		3.3-4.6-6.7	none		none		
T	wet		6.7-6.7-6.7		 		1	
November	moist		2.5-4.1-5.7	none		none		
December			6.7-6.7-6.7   4.1-4.9-6.7		 		1	1
ecember	moist     wet	4.1-4.9-6.7		none		none	ļ	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I62A (continued)

Wyandotte (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H				1	L - R - H
						<b> </b>	l	
January	moist		1.6-2.1-4.1	none		none		
	wet		6.7-6.7-6.7					
February	moist		2.0-2.6-4.9			none		
	wet		6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.5-2.3-4.1	none		none		
	wet		6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none		
	wet	1.6-3.0-4.9	6.7-6.7-6.7				[	
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7				1	
December	moist	0.0-0.0-0.0	1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7				1	
							l	

I63A Thiefriver fine sandy loam, 0 to 2 percent slopes

Thiefriver (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L-R-H	L - R - H		 	<u> </u>	İ I	L - R - H 
January	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	 	none	i i	i 
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	į	j
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none		
	wet	2.0-2.6-4.9						
March	moist	0.0-0.0-0.0		none		none		
	wet	1.5-2.3-4.9						
April	moist	0.0-0.0-0.0		none	ļ	occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5			!			!
May	moist	0.0-0.0-0.0		none	!	occasional	brief	0.0-0.3-0.
_	wet	0.5-0.8-3.3						
June	moist	0.0-0.0-0.0		none		occasional	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1					!	
July	moist   wet	0.0-0.0-0.0   1.6-3.0-4.9		none		none		
August	wet   moist	10.0-0.0-4.9		none	l i	l none	I I	l i
August	wet	2.5-3.8-5.7		none		Hone		
September		0.0-0.0-0.0		none	<u></u>	   rare	  very brief	  0.0-0.1-0.:
Depectabel	wet	11.6-3.3-4.9		110110	¦	1010		0.0 0.1 0
October	moist	0.0-0.0-0.0		none	i	rare	  verv brief	  0.0-0.1-0.:
000000	wet	1.3-2.5-4.1			i			
November	moist	0.0-0.0-0.0		none	i	rare	very brief	0.0-0.1-0.
	wet	0.8-1.6-3.3			i	i		İ
December	moist	0.0-0.0-0.0		none	i	none	j	i
	wet	1.3-2.0-3.9	6.7-6.7-6.7		i	i	İ	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I63A (continued)

Espelie (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 		 	L - R - H 
January	moist		    1.6-2.1-4.1	none			 	   
January			1.0-2.1-4.1   6.7-6.7-6.7	none	 	none		 
February			2.0-2.6-4.9	none	l I	l none	 	l I
1 022 442 7			6.7-6.7-6.7		i I		i	i I
March			1.5-2.3-4.9	none	i	none	i	
	wet	1.5-2.3-4.9	6.7-6.7-6.7		İ	i	i	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7		ĺ	İ	ĺ	
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.6-4.1	6.7-6.7-6.7				[	
July			1.6-3.0-4.9	none		none		
			6.7-6.7-6.7					
August			2.5-3.8-5.7	none		none		
			6.7-6.7-6.7					
September			1.6-3.3-4.9	none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7			1	ļ	
October			1.3-2.5-4.1	none	ļ	rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7		!	ļ.	!	
November			0.8-1.6-3.3	none	ļ	rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7		<u> </u>	!	!	l
December			1.3-2.0-3.9	none	ļ	none	!	ļ
	wet	1.3-2.0-3.9	6.7-6.7-6.7					

Foxlake (7 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	0.8-2.1-4.1	none	 	none		 
-	wet	0.8-2.1-4.1	6.7-6.7-6.7		i	i	İ	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	j	none	j	i
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	İ	İ	
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none		
	wet	0.3-1.3-3.3	6.7-6.7-6.7		[			
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
May			0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7					
June			0.8-1.3-3.3			occasional	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	!		
July			1.3-2.1-4.1		ļ	rare	very brief	0.0-0.2-0.3
_			6.7-6.7-6.7			!		
August			1.6-3.0-4.9			rare	very brief	0.0-0.2-0.3
a			6.7-6.7-6.7   1.3-2.5-4.1				 	
September			1.3-2.5-4.1   6.7-6.7-6.7			rare	very brier	0.0-0.2-0.3
October			0.8-1.6-3.3		l I	  occasional	lrows brice	  0.0-0.2-0.3
occoper			6.7-6.7-6.7		 	l	very prier	0.0-0.2-0.3 
November			0.5-1.3-2.5		 	  occasional	   brief	I  0.0-0.3-0.5
NO VOLIDEI			6.7-6.7-6.7		 		21161	0.0 0.5-0.5
December			0.8-1.6-3.3		! 	none	i	! 
	wet		6.7-6.7-6.7		! 		i	! 
					i	i	i	i
					1	1	1	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I63A (continued)

Huot (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	ĺ	L-R-H	L-R-H		İ	İ	l	L-R-H
January	moist		4.6-5.4-6.7	none	i	none		i
	wet		6.7-6.7-6.7					
February	moist		4.9-5.7-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.6-2.5-4.6	none		none		
	wet	1.6-2.5-4.6				ļ		
May	moist		2.3-3.0-5.2	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none		
	moist		2.8-3.8-6.2					
	wet	2.8-3.8-6.2						
July	dry		0.0-0.0-0.5	none		none		
	moist		3.8-4.6-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-0.7	none		none		
	moist		5.2-6.7-6.7					
	wet		6.7-6.7-6.7					
September	dry		0.0-0.0-0.5	none		none		
	moist		3.8-4.1-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-3.8-6.7	none		none		
	wet		6.7-6.7-6.7					
November	moist		2.5-3.3-4.9	none		none		
	wet		6.7-6.7-6.7					
December	moist		3.8-4.1-5.7	none		none		
	wet	3.8-4.1-5.7	6.7-6.7-6.7					

Clearwater, depressional (3 percent of the map unit)

						1	l	1
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L-R-H
	l						l	
January	moist		0.5-1.3-2.5			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
February	moist		0.8-1.6-3.0			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.5-1.6	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	0.8-1.6-3.0	none		occasional	brief	0.0-0.5-1.0
	wet	0.8-1.6-3.0	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	brief	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.2-0.5-1.6	none		occasional	long	0.0-0.5-1.0
	wet	0.2-0.5-1.6	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	long	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7					
	l						l	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I63A (continued)

Rosewood (3 percent of the map unit)

No 1.3-	 			77 14	=====================================	 	 	 
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 		 	L - R - H 
January	   moist	 	  2.0-2.5-4.9	none		   none		 
0 4114417	wet		6.7-6.7-6.7		i i		i	i
February	moist		2.5-3.3-5.7		i	l none	i	i
1021 4417	wet		6.7-6.7-6.7		i		i	i
March	moist		1.6-2.1-4.1	none	i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
-	wet	0.0-0.5-2.5	6.7-6.7-6.7		i	i	İ	i
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	i	occasional	very brief	0.0-0.3-0.
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none	j	rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		İ	İ	İ	ĺ
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7		[	1		1
August	moist	0.0-0.0-0.0	2.5-4.9-5.7	none		none		
	wet	2.5-4.9-5.7	6.7-6.7-6.7		[			[
September	moist	0.0-0.0-0.0	1.3-3.0-4.9	none		none		
	wet		6.7-6.7-6.7		1			1
October	moist		1.0-2.1-4.1	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7		[			[
November	moist		0.8-1.6-3.3	none		none		
	wet		6.7-6.7-6.7		[			
December	moist		1.3-2.1-4.1	none		none		
	wet	1.3-2.1-4.1	6.7-6.7-6.7		ļ	ļ	!	ļ.
						_	.	

Ulen (1 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
1	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		<u> </u>	 .	 	L - R - H 
January	moist	0.0-0.0-0.0	    2.6-3.3-5.9	none	   	none	j I	i I
- i	wet	2.6-3.3-5.9	6.7-6.7-6.7			i	i	i
February	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	j
į	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	İ	ĺ	ĺ
March	moist	0.0-0.0-0.0	2.6-3.3-5.7	none		none	j	i
	wet	2.6-3.3-5.7	6.7-6.7-6.7					l
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none		none		
ļ	wet	1.5-2.0-3.3	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.0-2.5-4.1	none		none		
J	wet	2.0-2.5-4.1	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
ļ	moist	0.0-0.0-0.3	2.5-3.0-4.9					
ļ	wet		6.7-6.7-6.7					
July			0.0-0.0-0.5	none		none		
	moist		3.0-4.9-6.2					
			6.7-6.7-6.7					
August	dry		0.0-0.0-0.7	none		none		ļ
	moist		6.7-6.7-6.7			1		
September	dry		0.0-0.0-0.3	none		none	!	!
			2.6-4.9-6.7			!	!	!
_	wet		6.7-6.7-6.7			!	!	!
October	moist		2.3-3.0-5.7	none		none	!	!
_	wet		6.7-6.7-6.7			!	!	!
November	moist		2.0-2.5-4.9	none		none	ļ	!
_	wet		6.7-6.7-6.7			ļ	ļ.	!
December	moist wet		2.3-3.0-5.2   6.7-6.7-6.7	none		none	ļ	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I63A (continued)

Wyandotte (1 percent of the map unit)

Month	  Moisture	l Top	   Bottom	   Flooding	   Flooding	Ponding	   Ponding	   Ponding
11011011	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L-R-H
January	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		 
	wet	1.6-2.1-4.1	6.7-6.7-6.7	ĺ	Ì	İ	İ	ĺ
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none		
	wet	2.0-2.6-4.9	6.7-6.7-6.7		[			
March	moist		1.5-2.3-4.1		!	none	ļ	ļ
	wet		6.7-6.7-6.7	•			!	
April	moist		0.0-0.5-2.5		!	occasional	brief	0.0-0.3-0.5
	wet   moist		6.7-6.7-6.7 0.5-0.8-3.3			  occasional	   brief	  0.0-0.3-0.5
May	moist   wet		6.7-6.7-6.7		ļ	Occasional	Driei	10.0-0.3-0.5
June	wet   moist		0.7-6.7-6.7   0.8-1.6-4.1	•	l i	  occasional	lrows baief	  0.0-0.3-0.5
oune	wet		6.7-6.7-6.7			l	  very prier	0.0-0.3-0.5
July	moist		11.6-3.0-4.9	•	i	l none	i	i
	wet		6.7-6.7-6.7		i		i	i
August	moist		2.5-3.8-5.7		i	none		i
	wet	2.5-3.8-5.7	6.7-6.7-6.7	İ	İ	İ	İ	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	j	none	j	j
	wet	1.6-3.3-4.9	6.7-6.7-6.7	İ	İ	İ	İ	j
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist		0.8-1.6-3.3	•		none		
	wet		6.7-6.7-6.7	•				
December	moist		1.3-2.0-3.9		ļ	none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7		ļ	!	!	!
	l					.		

I64A Ulen fine sandy loam, 0 to 3 percent slopes

Ulen (70 percent of the map unit)

January mois wet February mois wet March mois wet April mois wet May mois wet June dry mois wet July dry mois August dry mois September dry		2.6-3.3-5.9 0.0-0.0-0.0 3.3-4.1-6.7 0.0-0.0-0.0 2.6-3.3-5.7 0.0-0.0-0.0 1.5-2.0-3.3 0.0-0.0-0.0 2.0-2.5-4.1 0.0-0.0-0.0	depth L - R - H  2.6-3.3-5.9 6.7-6.7-6.7 13.3-4.1-6.7 6.7-6.7-6.7 1.5-2.0-3.3 6.7-6.7-6.7 1.5-2.0-3.3 6.7-6.7-6.7 1.0-0.0-0.3 2.5-3.0-4.9	none none none none none	duration	frequency	duration	depth   L - R - H 
wet February   mois wet March   mois   wet April   mois   wet May   mois   wet June   dry   mois   wet July   dry   mois   wet August   dry   mois		0.0-0.0-0.0 2.6-3.3-5.9 0.0-0.0-0.0 3.3-4.1-6.7 0.0-0.0-0.0 2.6-3.3-5.7 0.0-0.0-0.0 1.5-2.0-3.3 0.0-0.0-0.0 2.0-2.5-4.1 0.0-0.0-0.0	2.6-3.3-5.9 6.7-6.7-6.7 3.3-4.1-6.7 6.7-6.7-6.7 2.6-3.3-5.7 1.5-2.0-3.3 6.7-6.7-6.7 2.0-2.5-4.1 6.7-6.7-6.7	none none none none none	       	none none none none	     	L - R - H
wet February   mois   wet March   mois   wet April   mois   wet May   mois   wet June   dry   mois   wet July   dry   mois   wet August   dry   mois		2.6-3.3-5.9 0.0-0.0-0.0 3.3-4.1-6.7 0.0-0.0-0.0 2.6-3.3-5.7 0.0-0.0-0.0 1.5-2.0-3.3 0.0-0.0-0.0 2.0-2.5-4.1 0.0-0.0-0.0	6.7-6.7-6.7 3.3-4.1-6.7 6.7-6.7-6.7 2.6-3.3-5.7 6.7-6.7-6.7 1.5-2.0-3.3 6.7-6.7-6.7 2.0-2.5-4.1 6.7-6.7-6.7 0.0-0.0-0.3	none none none none none	     	none none none none	     	       
February mois wet March mois wet April mois wet May mois June dry mois wet July dry mois wet August dry mois	st	0.0-0.0-0.0 3.3-4.1-6.7 0.0-0.0-0.0 2.6-3.3-5.7 0.0-0.0-0.0 1.5-2.0-3.3 0.0-0.0-0.0 2.0-2.5-4.1 0.0-0.0-0.0	3.3-4.1-6.7 6.7-6.7-6.7 2.6-3.3-5.7 6.7-6.7-6.7 1.5-2.0-3.3 6.7-6.7-6.7 2.0-2.5-4.1 6.7-6.7-6.7 0.0-0.0-0.3	none none none none none	     	none none none	     	       
wet March   mois   wet April   mois   wet May   mois   wet June   dry   mois   wet July   dry   mois   wet August   dry   mois		3.3-4.1-6.7 0.0-0.0-0.0 2.6-3.3-5.7 0.0-0.0-0.0 1.5-2.0-3.3 0.0-0.0-0.0 2.0-2.5-4.1 0.0-0.0-0.0	6.7-6.7-6.7  2.6-3.3-5.7  6.7-6.7-6.7  1.5-2.0-3.3  6.7-6.7-6.7  2.0-2.5-4.1  6.7-6.7-6.7  0.0-0.0-0.3	none none none none	     	none none none	     	     
March mois wet April mois wet May mois June dry mois July dry mois wet August dry mois September dry	st   	0.0-0.0-0.0 2.6-3.3-5.7 0.0-0.0-0.0 1.5-2.0-3.3 0.0-0.0-0.0 2.0-2.5-4.1 0.0-0.0-0.0	2.6-3.3-5.7  6.7-6.7-6.7  1.5-2.0-3.3  6.7-6.7-6.7  2.0-2.5-4.1  6.7-6.7-6.7  0.0-0.0-0.3	none none none none	   	none none	     	     
April   wet April   mois   wet May   mois   wet June   dry   mois   wet July   dry   mois   wet August   dry   mois	;   st   ;   st   ;	2.6-3.3-5.7 0.0-0.0-0.0 1.5-2.0-3.3 0.0-0.0-0.0 2.0-2.5-4.1 0.0-0.0-0.0	6.7-6.7-6.7  1.5-2.0-3.3  6.7-6.7-6.7  2.0-2.5-4.1  6.7-6.7-6.7  0.0-0.0-0.3	none none none		none none	     	     
April mois wet May mois wet June dry mois wet July dry mois wet August dry mois September dry	st   	0.0-0.0-0.0 1.5-2.0-3.3 0.0-0.0-0.0 2.0-2.5-4.1 0.0-0.0-0.0	1.5-2.0-3.3  6.7-6.7-6.7  2.0-2.5-4.1  6.7-6.7-6.7  0.0-0.0-0.3	none none none none	   	none	   	     
May mois Wet June dry mois Wet July dry mois Wet August dry mois September dry mois	:   st   :   7	1.5-2.0-3.3   0.0-0.0-0.0   2.0-2.5-4.1   0.0-0.0-0.0	6.7-6.7-6.7  2.0-2.5-4.1  6.7-6.7-6.7  0.0-0.0-0.3	none none	     	none	   	     
May mois wet June dry mois wet July dry mois wet August dry mois September dry	st   :   7	0.0-0.0-0.0   2.0-2.5-4.1   0.0-0.0-0.0	2.0-2.5-4.1  6.7-6.7-6.7  0.0-0.0-0.3	none none	   			   
June   dry   mois   wet July   dry   mois   wet August   dry   mois September   dry	7	2.0-2.5-4.1	6.7-6.7-6.7 0.0-0.0-0.3	none	   			   
June dry mois wet July dry mois wet August dry mois September dry	, j	0.0-0.0-0.0	0.0-0.0-0.3	none	 	none		 
mois wet July dry mois wet August dry mois september dry				•		none		l
July dry mois wet August dry mois september dry	I	0.0-0.0-0.3	2.5-3.0-4.9				!	
July dry mois wet August dry mois september dry mois		7		1	ļ	ļ	ļ	!
mois   wet August   dry   mois September  dry   mois			6.7-6.7-6.7	•		ļ	ļ	!
wet August   dry   mois September   dry			0.0-0.0-0.5		!	none	!	!
August   dry   mois   mois   mois   mois			3.0-4.9-6.2			ļ	ļ	
mois September   dry   mois			6.7-6.7-6.7	•	!	ļ	!	!
September dry			0.0-0.0-0.7	•		none		ļ
mois			6.7-6.7-6.7   0.0-0.0-0.3	1		l none		
!			2.6-4.9-6.7	•	 	none		
l wer			6.7-6.7-6.7		¦	l I	i i	
October   mois			2.3-3.0-5.7		i	l none	l	¦
wet			6.7-6.7-6.7	•	İ	110110	i	i
November   mois			2.0-2.5-4.9	•	i	l none	i	i
wet	- 1		6.7-6.7-6.7	•	i		i	i
December   mois			2.3-3.0-5.2	•	i	none	i	i
wet			6.7-6.7-6.7	•	i	i	:	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I64A (continued)

Rosewood (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 		 	L - R - H 
January	moist	0.0-0.0-0.0		none	   	none		   
	wet		6.7-6.7-6.7		i		i	İ
February	moist		2.5-3.3-5.7	none	i	none		
_	wet	2.5-3.3-5.7	6.7-6.7-6.7		İ	i	į	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none	i	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		ĺ	İ		
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-1.3-3.3	6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
July	moist		1.6-3.3-4.9	none		none		
			6.7-6.7-6.7		!	ļ	!	
August	moist		2.5-4.9-5.7	none	ļ	none		
	wet		6.7-6.7-6.7			ļ		
September	moist		1.3-3.0-4.9	none		none		
0 11-	wet   moist		6.7-6.7-6.7				 	
October			1.0-2.1-4.1   6.7-6.7-6.7	none		rare	very brier	0.0-0.3-0.5
November	wet   moist		0.7-6.7-6.7   0.8-1.6-3.3	none	l i	l none		l i
Noveliber	moist   wet		0.8-1.8-3.3   6.7-6.7-6.7	none	 	none		 
December	wet   moist		0.7-0.7-0.7   1.3-2.1-4.1	none	l I	l none	 	l I
Secember		1.3-2.1-4.1		none	! - <b></b>	l mone		- <b></b>

Flaming (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   			 .	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none		none	i I	i I
_	wet	4.6-5.4-6.7	6.7-6.7-6.7		ĺ	i	İ	İ
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none		none	i	j
	wet	5.2-6.2-6.7	6.7-6.7-6.7			İ	ĺ	ĺ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist		2.1-2.5-6.7	none		none		
			6.7-6.7-6.7					
May	moist		2.5-2.8-5.7	none		none		ļ
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none	ļ	!
			2.6-3.3-6.7			!	<u> </u>	!
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
			6.7-6.7-6.7   0.0-0.0-1.0				 	
August			0.0-0.0-1.0   6.7-6.7-6.7	none		none		
September	moist     drv		0.0-0.0-0.3	none	 	l none	l I	l I
september			4.1-4.9-6.7	none	 	l none	 	 
			6.7-6.7-6.7			i	! 	i
October			3.3-4.6-6.7	none		l none	i	i
			6.7-6.7-6.7				i	i
November			2.5-4.1-5.7	none		none		i
	wet	2.5-4.1-5.7	6.7-6.7-6.7			i	İ	İ
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none	i	i
	wet	4.1-4.9-6.7	6.7-6.7-6.7			İ	İ	İ

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I64A (continued)

Karlsruhe (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L - R - H
					l l	! ———— !		! 
January	moist		2.6-3.3-6.2	none	j	none	j	j
	wet	2.6-3.3-6.2	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	2.6-3.3-5.9	none		none		
	wet	2.6-3.3-5.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none		none		
	wet	1.5-2.0-3.3	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	1.8-2.5-4.1	none		none		
	wet	1.8-2.5-4.1	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	2.5-3.0-4.9	none		none		
	wet	2.5-3.0-4.9	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	3.0-3.6-6.7					
	wet	3.0-3.6-6.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	4.1-6.7-6.7					
	wet	4.1-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-4.1-6.7					
	wet	2.6-4.1-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none		
	wet	3.0-4.3-5.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.0-2.5-4.9	none	i	none	j	
	wet	2.0-2.5-4.9	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	2.3-3.0-5.6	none		none	j	
	wet	2.3-3.0-5.6	6.7-6.7-6.7				1	

Radium (3 percent of the map unit)

					1	1	l	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - 1 
January	   moist	  0.0-0.0-0.0	  4.9-5.4-6.7	none	 	none	 	 
2	wet		6.7-6.7-6.7		i		i	i
February	moist		5.7-6.2-6.7		i	none	i	i
_	wet	5.7-6.2-6.7	6.7-6.7-6.7		i	i	i	i
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none	j	none	j	j
	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	2.1-3.0-4.9	none	j	none	j	j
	wet	2.1-3.0-4.9	6.7-6.7-6.7		1		1	1
May	moist	0.0-0.0-0.0	2.6-3.8-5.7	none		none		
	wet	2.6-3.8-5.7	6.7-6.7-6.7		[			[
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	3.3-4.4-6.7		1			1
	wet	3.3-4.4-6.7	6.7-6.7-6.7		1			1
July	dry		0.0-0.0-0.7			none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		
	moist		6.7-6.7-6.7					
September			0.0-0.0-0.7			none		
	moist		4.1-4.9-6.7		!	!	!	!
	wet		6.7-6.7-6.7				!	!
October	moist		3.3-4.6-6.7		ļ	none	!	!
_	wet		6.7-6.7-6.7				!	!
November	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					ļ .
December	moist		4.1-4.9-6.7			none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7		1	1	ļ	!
	l	l	l		l —————		l	l

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I64A (continued)

Strathcona (2 percent of the map unit)

Month			Dotton	Flooding	   Flooding	Ponding	Ponding	Ponding
Month	Moisture   status	Top depth	Bottom depth	frequency	duration	frequency	duration	depth
	status	L-R-H	L-R-H	rrequency	duration	frequency	duration	L-R-H
	I I	L - K - п	т - к - н	 	 	l I	l I	L - K - д
		l ————————————————————————————————————	l	l	l ————————————————————————————————————	 		l ————————————————————————————————————
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	¦	 
_	wet	1.6-3.0-4.1	6.7-6.7-6.7		<u> </u> 	i	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
-	wet	2.5-3.3-4.9	6.7-6.7-6.7	İ	:	i	i	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none	i	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7	ĺ	İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
December	moist		1.3-2.1-3.8			none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7					
	l					l	l	

Thiefriver (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 _	 	L - R - H 
January	   moist	0.0-0.0-0.0	 	none		none		i 
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none	j	i
	wet	2.0-2.6-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none		none		
	wet	1.5-2.3-4.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
lay	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9	none	ļ	none		
			6.7-6.7-6.7					
lugust	moist		2.5-3.8-5.7	none		none		ļ
	wet		6.7-6.7-6.7		!	!	!	!
September			1.6-3.3-4.9	none	ļ	rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7					
october	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7					
ovember	moist	•	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7			ļ		
December	moist		1.3-2.0-3.9	none		none		
	wet	11.3-2.0-3.9	6.7-6.7-6.7			1	1	l
	l	l			l	-	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I65A Ulen loamy fine sand, 0 to 3 percent slopes

Ulen (70 percent of the map unit)

	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H			į	į	L-R-H
	·		 		<del></del>	 	 	 
January	moist		2.6-3.3-5.9	none	j	none	j	j
	wet		6.7-6.7-6.7					
February	moist		3.3-4.1-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		2.6-3.3-5.7	none		none		
	wet		6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none		none		
	wet	1.5-2.0-3.3	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.0-2.5-4.1	none		none		
	wet	2.0-2.5-4.1	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.5-3.0-4.9					
	wet	2.5-3.0-4.9	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	3.0-4.9-6.2					
	wet	3.0-4.9-6.2	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	2.6-4.9-6.7					
	wet	2.6-4.9-6.7	6.7-6.7-6.7			İ	ĺ	ĺ
October	moist	0.0-0.0-0.0	2.3-3.0-5.7	none		none	j	j
	wet	2.3-3.0-5.7	6.7-6.7-6.7			İ	ĺ	ĺ
November	moist	0.0-0.0-0.0	2.0-2.5-4.9	none		none	j	i
	wet	2.0-2.5-4.9	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	2.3-3.0-5.2	none		none	j	i
	wet	2.3-3.0-5.2	6.7-6.7-6.7		İ	İ	İ	İ

Rosewood (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 		[ 	L - R - H I
_								
January	moist		2.0-2.5-4.9	none		none		
<b>-</b> -1	wet		6.7-6.7-6.7				1	
February	moist		2.5-3.3-5.7	none		none		
March	wet   moist		6.7-6.7-6.7   1.6-2.1-4.1	none	 	l none	 	
March	moist   wet		1.6-2.1-4.1   6.7-6.7-6.7	none		none		
April	wet   moist		0.7-6.7-6.7   0.0-0.5-2.5	none	l i	  occasional	   brief	  0.0-0.3-0.5
APITI	wet		0.0-0.3-2.5   6.7-6.7-6.7	none		l	l prier	1
May	wet   moist		0.7-0.7-0.7   0.5-1.3-3.3	none	 	  occasional	lucry brief	  0.0-0.3-0.5
мау	wet		6.7-6.7-6.7	none	] I	l	   Aera prier	0 • 0 = 0 • 3 = 0 • •
June	moist		0.7-0.7-0.7   0.8-1.6-4.1	none	<u> </u>	   rare	lvery brief	  0.0-0.3-0.5
buile	wet		6.7-6.7-6.7	none	 	1 1016	very brier	0.0-0.5-0.
July	moist		11.6-3.3-4.9	none	i	none		! 
0 417	wet		6.7-6.7-6.7		i i		i	İ
August	moist		2.5-4.9-5.7	none	i	none	i	i
	wet		6.7-6.7-6.7		i		i	İ
September			1.3-3.0-4.9	none	i	none	i	i
•	wet		6.7-6.7-6.7		i		i	i
October	moist		1.0-2.1-4.1	none	i	rare	very brief	0.0-0.3-0.
	wet	1.0-2.1-4.1	6.7-6.7-6.7		i	i	i -	i
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none	i	none	j	i
	wet	0.8-1.6-3.3	6.7-6.7-6.7		i	i	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.1-4.1	none	j	none	j	j
	wet	1.3-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
	i	i	i i		i	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I65A (continued)

Flaming (6 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	 	j I
	wet	4.6-5.4-6.7	6.7-6.7-6.7			Ì	ĺ	ĺ
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none		none		
	wet	5.2-6.2-6.7	6.7-6.7-6.7			[		
March	moist		3.3-4.1-6.7	none		none		
			6.7-6.7-6.7					
April	moist		2.1-2.5-6.7	none		none		
	wet		6.7-6.7-6.7			ļ		
May			2.5-2.8-5.7	none		none		ļ
			6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none	ļ	ļ
	moist		2.6-3.3-6.7			!	!	!
			6.7-6.7-6.7			!	!	!
July	dry		0.0-0.0-0.7	none		none	!	!
	moist		6.7-6.7-6.7			!	!	!
August	dry		0.0-0.0-1.0	none		none	!	!
			6.7-6.7-6.7					<u> </u>
September	dry		0.0-0.0-0.3	none		none		ļ
	moist		4.1-4.9-6.7					
2 - 1 - 1	wet		6.7-6.7-6.7		 			!
October			3.3-4.6-6.7	none		none		ļ
			6.7-6.7-6.7		l i			!
November	moist     wet		2.5-4.1-5.7	none	 	none		
December			6.7-6.7-6.7		l i		 	
Jecember	moist     wet	4.1-4.9-6.7	4.1-4.9-6.7	none		none	!	!

Poppleton (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 .	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	    0.0-0.0-0.0	 	none	 	none	j I	i I
	wet	4.6-5.4-6.7	6.7-6.7-6.7		İ	į	į	İ
February	moist	0.0-0.0-0.0	5.2-6.2-6.7	none	i	none	j	j
	wet	5.2-6.2-6.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7					l
April	moist	0.0-0.0-0.0	2.1-2.5-6.7	none		none		
	wet	2.1-2.5-6.7	6.7-6.7-6.7			[		
May	moist	0.0-0.0-0.0	2.5-2.8-5.7	none		none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7			[		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7			[		
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry		0.0-0.0-0.7			none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		
	•	•	6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7			none		ļ
	wet		6.7-6.7-6.7					
November	moist		2.5-4.1-5.7		ļ	none	!	!
	wet		6.7-6.7-6.7		!	ļ.	ļ.	!
December	moist		4.1-4.9-6.7	none	ļ	none	!	!
	wet	4.1-4.9-6.7	6.7-6.7-6.7			!	ļ	!
						l		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I65A (continued)

Karlsruhe (3 percent of the map unit)

Month   1	Moisture status	Top	Bottom	Flooding frequency	Flooding duration	Ponding	Ponding   duration	Ponding
!	status	depth L - R - H	depth   L-R-H	rrequency	duration	frequency	duration	depth
			L - R - H   			!	ļ 	
 January	moist	0.0-0.0-0.0	  2.6-3.3-6.2	none	 	none	 	 
I	wet	2.6-3.3-6.2	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
I	wet	3.3-4.1-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	2.6-3.3-5.9	none		none		
I	wet	2.6-3.3-5.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	1.5-2.0-3.3	none		none		
I			6.7-6.7-6.7					
May	moist		1.8-2.5-4.1	none		none		
I			6.7-6.7-6.7					
June	moist		2.5-3.0-4.9	none		none		
I	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.3	none		none		
ļ	moist		3.0-3.6-6.7			ļ	!	!
ļ	wet		6.7-6.7-6.7			[		
August	dry		0.0-0.0-0.5	none		none		ļ
ļ	moist		4.1-6.7-6.7			[		
ļ	wet		6.7-6.7-6.7			[		
September	dry		0.0-0.0-0.3	none		none		ļ
ļ	moist		2.6-4.1-6.7			ļ	!	!
	wet		6.7-6.7-6.7			ļ	!	!
October	moist		3.0-4.3-5.7	none		none	!	!
ļ	wet		6.7-6.7-6.7			ļ	!	!
November	moist		2.0-2.5-4.9	none		none	!	!
ļ	wet		6.7-6.7-6.7			ļ	ļ.	!
December	moist		2.3-3.0-5.6	none		none	ļ	!
i	wet	2.3-3.0-5.6	6.7-6.7-6.7					

Radium (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L-R-H	L - R - H		 	İ I	 	L - R - H 
January	   moist	0.0-0.0-0.0	4.9-5.4-6.7	none	 	none	i i	i I
	wet	4.9-5.4-6.7	6.7-6.7-6.7		ĺ	İ	İ	ĺ
February	moist	0.0-0.0-0.0	5.7-6.2-6.7	none		none		
	wet	5.7-6.2-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist		2.1-3.0-4.9			none		
	wet	2.1-3.0-4.9	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.6-3.8-5.7	none		none		
	wet		6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist		3.3-4.4-6.7					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7			none		
	moist		6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist		4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7			none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
November	moist		2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
December	moist		4.1-4.9-6.7			none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I65A (continued)

Strathcona (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 		 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	 	none	i 	 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		i	i	į	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist		0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
			6.7-6.7-6.7			1		
July	moist		1.6-3.3-4.9	none	!	none	ļ	
			6.7-6.7-6.7			ļ.	!	
August	moist		2.5-4.1-5.7	none		none		
	wet		6.7-6.7-6.7			ļ		
September	moist		1.6-3.3-4.9	none		none		
0 - 1 - 1			6.7-6.7-6.7					
October	moist wet		1.3-2.5-4.1	none		rare	very brier	0.0-0.1-0.3
November	wet   moist		6.7-6.7-6.7   0.8-1.6-3.3		 		 	  0.0-0.1-0.3
November	moist   wet		0.8-1.6-3.3   6.7-6.7-6.7	none		rare	very brier	0.0-0.1-0.3 
December	wet   moist		6.7-6.7-6.7     1.3-2.1-3.8	none	l I	l none	l 	l I
)ecember		1.3-2.1-3.8		none	- <b></b>	l none	<b>-</b>	- <b></b>

Thiefriver (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 _	 	L - R - H 
January	   moist	0.0-0.0-0.0	 	none		none		i 
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none	ļ	i
	wet	2.0-2.6-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none		none		
	wet	1.5-2.3-4.9	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
lay	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9	none	ļ	none		
			6.7-6.7-6.7					
lugust	moist		2.5-3.8-5.7	none		none		ļ
	wet		6.7-6.7-6.7		<u> </u>	!	!	!
September			1.6-3.3-4.9	none	ļ	rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7					
october	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7					
ovember	moist	•	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7			ļ		
December	moist		1.3-2.0-3.9	none		none		
	wet	11.3-2.0-3.9	6.7-6.7-6.7			1	1	
	l	l			l	-	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I66A Vallers loam, 0 to 2 percent slopes

Vallers (75 percent of the map unit)

					1		1	·
Month	  Moisture	   Top	Bottom	   Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H	    -	İ	į	į	L - R - H
	 		<del></del>		ļ	-		
January	moist		1.6-3.0-4.1	•		none	ļ	
_	wet		6.7-6.7-6.7			ļ.	!	
February	moist		2.5-3.3-4.9	•		none	ļ	
_	wet		6.7-6.7-6.7	•		ļ.	!	
March	moist		1.3-2.1-3.3			none	!	
	wet		6.7-6.7-6.7	•	!			
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!			
May	moist		0.3-0.8-3.3	•		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•	!			
June	moist		0.7-1.3-4.1	•		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•	!	ļ	!	
July	moist		1.6-3.0-4.9			none	ļ	
	wet		6.7-6.7-6.7	•	!	ļ	!	
August	moist		2.5-3.8-5.7	•		none	ļ	
	wet		6.7-6.7-6.7	•	!	ļ		
September	:		2.0-3.3-4.9	•		rare	very brief	0.0-0.3-0.5
_	wet		6.7-6.7-6.7	•		!		
October	moist		1.3-1.6-4.1			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	•		!		
November	moist		0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ.	!	l
December	moist		1.3-2.1-3.8	•	ļ	none	ļ	ļ
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!	!	!	l
						_	.	

Vallers, very cobbly (7 percent of the map unit)

		_						
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	ļ	L-R-H	L-R-H			ļ	ļ	L - R - H
						.	l	l
January	   moist	0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		 
_	wet	1.6-3.0-4.1	6.7-6.7-6.7		į	İ	i	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		Ì	İ	İ	ĺ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none	j	none		i
	wet	1.3-2.1-3.3	6.7-6.7-6.7		[			l
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		1			
May	moist		0.3-0.8-3.3			occasional	brief	0.0-0.3-0.
			6.7-6.7-6.7					
June	moist		0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9			none		
	wet		6.7-6.7-6.7		ļ			
August	moist		2.5-3.8-5.7		!	none	ļ	!
	wet		6.7-6.7-6.7		!	!		!
September			2.0-3.3-4.9		ļ	rare	very brief	0.0-0.3-0.
_	wet		6.7-6.7-6.7			!		
October	moist		1.3-1.6-4.1	none	!	rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
November	moist		0.8-1.3-3.3		ļ	occasional	brief	0.0-0.3-0.
<b>5</b>	wet		6.7-6.7-6.7				1	
December	moist		1.3-2.1-3.8	none		none		
	wet	1 . 3 - 2 . 1 - 3 . 8	6.7-6.7-6.7		1	1	1	
	l	l				l	l	l ————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I66A (continued)

Hamerly (6 percent of the map unit)

No 1-3-	 		 	#1 1/				
Month	Moisture   status		Bottom	Flooding	Flooding   duration	Ponding	Ponding   duration	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H		l i	l i	 	L - R - H
		I	l ————————————————————————————————————		l	I	I	I ————————————————————————————————————
January	moist	0.0-0.0-0.0	2.5-4.1-5.7	none	i	none	j	j
	wet		6.7-6.7-6.7					
February	moist		3.3-4.9-6.7			none		
	wet	3.3-4.9-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	2.5-3.8-5.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		0.7-1.3-3.3			none		
	wet		6.7-6.7-6.7					
May	moist		1.0-1.5-4.1	none		none		
	wet	1.0-1.5-4.1	6.7-6.7-6.7					
June	moist		1.6-2.0-4.9			none		
	wet	1.6-2.0-4.9	6.7-6.7-6.7					
July	dry		0.0-0.0-0.3	none		none		
	moist		2.5-3.3-5.4					
	wet	2.5-3.3-5.4	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	3.3-6.7-6.7					
	wet	3.3-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.5-4.6-5.7					
	wet	2.5-4.6-5.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	2.0-3.9-4.9	none		none		
	wet	2.0-3.9-4.9	6.7-6.7-6.7			[		
November	moist	0.0-0.0-0.0	1.6-3.0-4.1	none		none	j	
	wet	1.6-3.0-4.1	6.7-6.7-6.7			[		
December	moist	0.0-0.0-0.0	2.0-3.8-4.9	none		none		
	wet	2.0-3.8-4.9	6.7-6.7-6.7			[		
	l							

Grimstad (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H		<u> </u>	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  2.5-3.8-5.7	none	 	none	 	 
	wet	2.5-3.8-5.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		2.5-3.0-5.7			none		
			6.7-6.7-6.7					
April	moist		0.8-1.5-3.3	none		none		
	wet		6.7-6.7-6.7					
May	moist		1.1-1.8-4.1	none		none		
			6.7-6.7-6.7			ļ		
June	moist		1.6-3.3-4.9	none		none		ļ
			6.7-6.7-6.7					
July	dry		0.0-0.0-0.3	none		none	ļ	ļ
			2.5-5.7-6.2					
			6.7-6.7-6.7				!	
August	dry		0.0-0.0-0.5	none		none	!	!
	moist		6.7-6.7-6.7			!	!	!
September	dry		0.0-0.0-0.3			none	!	!
			2.5-3.8-6.7			!	!	!
	wet		6.7-6.7-6.7			!	!	!
October	moist		2.0-3.0-5.6	none		none	!	!
_	wet		6.7-6.7-6.7			!	!	!
November			1.6-2.5-4.9	none		none	ļ	!
			6.7-6.7-6.7			ļ	!	!
December	moist		2.0-3.3-5.4	none		none	!	!
	wet	2.0-3.3-5.4	6.7-6.7-6.7			1	l	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I66A (continued)

Mavie (3 percent of the map unit)

					ļ .	1	1	!
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 .	L - R - H 	L - R - H   		 	 -	 	L - R - н 
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	i	İ	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	j	none		i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		[			
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7		[			
May	moist		0.5-0.8-3.3			occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
July	moist		1.6-3.3-4.9			none		ļ
			6.7-6.7-6.7			!	!	<u> </u>
August	!		2.5-4.1-5.7			none	!	ļ
	wet		6.7-6.7-6.7			ļ		!
September	•		1.6-3.3-4.9			none		
October			6.7-6.7-6.7				 	
October	moist   wet		1.3-2.5-4.1   6.7-6.7-6.7			rare	very brier	0.0-0.3-0.
November			0.7-6.7-6.7   0.8-1.6-3.3		l i	l none		l I
November	wet		0.8-1.8-3.3   6.7-6.7-6.7			none		 
December	wet   moist		1.3-2.1-3.8			l none		! !
pecemper	wet		1.3-2.1-3.8   6.7-6.7-6.7	110116	 	l mone	 	ı I
	l wer	± • 5 - 2 • 1 - 3 • 6   	0 • 7 = 0 • 7   		1 			! 
	· I —————	I ————	l ————————————————————————————————————		I	-1	1	I —————

Roliss, depressional (3 percent of the map unit)

	1	I	I I				I	
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist	10.0-0.0-0.0	0.8-1.6-3.0	none	   	    occasional	long	0.0-0.5-1.0
0 411441 7	wet		6.7-6.7-6.7		i		20119	
February	moist		1.6-2.5-3.3			occasional	long	0.0-0.5-1.0
_	wet	1.6-2.5-3.3	6.7-6.7-6.7		i	i	i	i
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	none	i	occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7		İ	İ	İ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					1
May	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		frequent	long	0.0-0.5-1.
	wet	0.0-0.0-1.6	6.7-6.7-6.7					[
June	moist		0.2-0.8-2.5	none		occasional	brief	0.0-0.5-1.
	wet		6.7-6.7-6.7					
July	moist		0.8-1.6-3.0			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!	ļ	!	
August	moist		1.6-2.1-3.3			rare	very brief	0.0-0.3-0.
_	wet		6.7-6.7-6.7			ļ.		
September			0.8-1.6-3.0	none		rare	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7			!		
October	moist		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7   0.2-0.5-1.6			1	1	
November	moist					occasional	long	0.0-0.5-1.
December	wet   moist		6.7-6.7-6.7			  occasional	l long	  0.0-0.5-1.
December	moist   wet		0.3-0.8-2.0   6.7-6.7-6.7	none		loccasional	l roug	10.0-0.5-1.
	l wer	10.3-0.8-2.0	0 • / <del>-</del> 0 • / <del>-</del> 0 • /   		I I	I I	I I	] ]
	I				I	_	·I————	l —————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I66A (continued)

Strathcona (3 percent of the map unit)

Month	  Moisture	l Top	Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
HOHEH	status	depth	depth	frequency	duration	frequency	duration	depth
	l	L-R-H	L-R-H	rrequency	441401011	II cquency	l	L-R-H
	i	 			! 	i	i	
					<del></del>			
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none		none	i	i
	wet	1.6-3.0-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none	i	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none	i	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7			1		
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7			1		
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-4.1	6.7-6.7-6.7			[		
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7			[		
August	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7			[		
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7			[		
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1				[		
November	moist		0.8-1.6-3.3			rare	very brief	0.0-0.1-0.3
	wet	0.8-1.6-3.3	6.7-6.7-6.7			[		
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7			[		
						l		l

I67A Wheatville loam, 0 to 3 percent slopes

Wheatville (70 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	  2.5-3.8-5.7	none	 	none	 	 
	wet	2.5-3.8-5.7	6.7-6.7-6.7					[
February	moist		3.3-4.6-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		2.5-3.0-5.7			none		
Anril	wet		6.7-6.7-6.7		!	!	!	!
April	moist		0.7-1.3-3.3	none	ļ	none	!	!
	wet		6.7-6.7-6.7		!	!	!	!
May	moist		1.0-1.6-4.1			none	!	!
	wet		6.7-6.7-6.7		!	!	!	!
June	moist		1.6-2.5-4.9			none	ļ	!
	wet		6.7-6.7-6.7					!
July	moist		2.5-3.8-6.2	none		none		ļ
	wet		6.7-6.7-6.7				!	!
August	dry   moist		0.0-0.0-0.3  3.8-6.7-6.7		<del></del>	none		
	moist   wet		3.8-6.7-6.7   6.7-6.7-6.7		 	 		
September			2.5-3.8-6.2		l I	l none	l I	
september	wet		6.7-6.7-6.7		 	l none	 	
October	moist		2.0-3.0-5.6	none	! !	l none	! !	¦
OCCODEL	wet		6.7-6.7-6.7	none	 	l none	 	i
November	moist		1.6-2.5-4.9	none	! !	l none	i	i
	wet		6.7-6.7-6.7		i		i	i
December	moist		2.0-3.3-5.4	none	i	l none	i	i
	wet		6.7-6.7-6.7		i		i	i
	1				İ	i	i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I67A (continued)

Augsburg (13 percent of the map unit)

Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		 	none	i	none	i	i 
o and ary	wet		6.7-6.7-6.7		 	none		 
February	moist		2.0-2.6-4.9		i	l none	i	! !
1021 441	wet		6.7-6.7-6.7		i		i	i
	moist		1.5-2.3-4.9		i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
	moist		0.0-0.5-2.5		i	occasional	brief	0.0-0.3-0.
-	wet	0.0-0.5-2.5	6.7-6.7-6.7		i	i	i	i
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	i	i	į
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none	i	occasional	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		İ	İ	İ	İ
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none	j	i
	wet	1.6-3.0-4.9	6.7-6.7-6.7		İ	İ	İ	ĺ
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none	ļ	none		j
	wet	2.5-3.8-5.7	6.7-6.7-6.7			1		1
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		rare	very brief	0.0-0.3-0.
	wet	1.6-3.3-4.9	6.7-6.7-6.7					[
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		occasional	brief	0.0-0.3-0.
	wet	1.3-2.5-4.1	6.7-6.7-6.7		1			[
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		1			I
December	moist		1.3-2.0-3.9			none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7		ļ	ļ	!	ļ.
	.	l				_	.	

Glyndon (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H		 	 	 	L - R - H 
January	moist	    0.0-0.0-0.0	2.5-4.1-6.7	none	 	none	 	 
	wet	2.5-4.1-6.7			İ	i	i	i
February	moist	0.0-0.0-0.0	3.3-4.9-6.7	none	i	none	i	i
_	wet	3.3-4.9-6.7	6.7-6.7-6.7		į	i	i	i
March	moist	0.0-0.0-0.0	2.5-3.9-5.7	none	i	none	i	i
	wet	2.5-3.9-5.7	6.7-6.7-6.7		İ	İ	İ	İ
* !	moist	0.0-0.0-0.0	0.7-1.0-3.3	none	i	none	i	j
	wet	0.7-1.0-3.3	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
May	moist	0.0-0.0-0.0	1.0-1.6-4.1	none		none	i	i
	wet	1.0-1.6-4.1	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	1.6-2.5-4.9	none		none		
	wet	1.6-2.5-4.9	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.2	none		none		
	moist	0.0-0.0-0.2						
	wet	2.5-3.9-6.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0				none		
	moist	0.0-0.0-0.3						
	wet	3.3-6.7-6.7						
September	moist	0.0-0.0-0.0				none		
	wet	2.5-4.6-6.2						
October	moist	0.0-0.0-0.0				none		ļ
	wet		6.7-6.7-6.7					
lovember	moist	0.0-0.0-0.0				none		ļ
	wet	1.6-3.0-4.1			<u> </u>	!	!	!
December	moist	0.0-0.0-0.0			ļ	none	ļ	!
	wet	2.0-3.8-4.9	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I67A (continued)

Foxlake (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		<u> </u>	 	 	L - R - H
January	   moist		  0.8-2.1-4.1	none	 	none	 	 
	wet		6.7-6.7-6.7		ļ			
February	moist		1.6-2.5-4.9		ļ	none	ļ	
	•		6.7-6.7-6.7		!	!	!	
March	moist		0.3-1.3-3.3			none		
	wet		6.7-6.7-6.7			!		
April	moist		0.0-0.0-1.6			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7				1, 1, 1, 6	
May	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
<b>-</b>	wet   moist		6.7-6.7-6.7			  occasional	 	
June	moist   wet		0.8-1.3-3.3   6.7-6.7-6.7			occasional	very brier	0.0-0.3-0.5
July	wet   moist		1.3-2.1-4.1		l I	   rare	l	  0.0-0.2-0.3
July			1.3-2.1-4.1   6.7-6.7-6.7		 	l rare		0.0-0.2-0.3 
August	wet   moist		11.6-3.0-4.9		 	   rare	lvery brief	  0.0-0.2-0.3
lugusc			6.7-6.7-6.7		 	l rare	very brier	0.0-0.2-0.5 
September	moist		11.3-2.5-4.1		! !	   rare	  verv brief	  0.0-0.2-0.3
осресиюсь	wet		6.7-6.7-6.7		! 	1410		• • • • • • • • • • • • • • • • • • •
October	moist		0.8-1.6-3.3		i	occasional	verv brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7		i			
November	moist		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.5
	wet	0.5-1.3-2.5	6.7-6.7-6.7		i	İ	i	
December	moist		0.8-1.6-3.3		i	none	i	
	wet	0.8-1.6-3.3	6.7-6.7-6.7		İ	İ	j	İ
	i	İ	i		İ	İ	i	İ

Hilaire (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L-R-H	L - R - H   		 	İ İ	İ I	L - R - H 
January	   moist	  0.0-0.0-0.0	  4.6-5.4-6.7	none	 	none	i 	i 
	wet	4.6-5.4-6.7	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	4.9-5.7-6.7	none		none		
	wet	4.9-5.7-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7					
April	moist		1.6-2.5-4.6			none		
	wet		6.7-6.7-6.7					
May	moist		2.3-3.0-5.2	none		none		
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist		2.8-3.8-6.2					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.5			none		
	moist		3.8-4.6-6.7			!	!	
	wet		6.7-6.7-6.7			!	!	
August	dry		0.0-0.0-0.7	none		none	!	
	moist		5.2-6.7-6.7			!	!	
	wet		6.7-6.7-6.7			!	!	
September			0.0-0.0-0.5			none	!	
	moist		3.8-4.1-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-3.8-6.7	none		none		
	wet		6.7-6.7-6.7					l
November	moist		2.5-3.3-4.9			none		
	wet		6.7-6.7-6.7					l
December	moist		3.8-4.1-5.7	none		none		
	wet	3.8-4.1-5.7	6.7-6.7-6.7		 	1	1	 
	l	l	l			l		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I67A (continued)

Ulen (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į i	L - R - H	L-R-H		İ	į	İ	L - R - H
	İ	İ	İİ			İ	İ	İ
January	moist	0.0-0.0-0.0	2.6-3.3-5.9	none		none		
	wet		6.7-6.7-6.7					
February	moist		3.3-4.1-6.7	none		none		
	wet		6.7-6.7-6.7					
March	moist		2.6-3.3-5.7	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.5-2.0-3.3	none		none		
	wet		6.7-6.7-6.7			!	!	!
May	moist		2.0-2.5-4.1	none		none	ļ	!
	wet		6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none	!	!
	moist		2.5-3.0-4.9			!	!	!
_	wet		6.7-6.7-6.7			!	!	!
July	dry		0.0-0.0-0.5	none		none		ļ
	moist		3.0-4.9-6.2					
	wet		6.7-6.7-6.7			!	!	!
August	dry		0.0-0.0-0.7	none		none		
	moist		6.7-6.7-6.7					ļ
September			0.0-0.0-0.5	none		none		ļ
	moist		2.6-4.9-6.7		 			!
October	wet		6.7-6.7-6.7   2.3-3.0-5.7		l i	 	 	
October	moist		2.3-3.0-5.7   6.7-6.7-6.7	none		none		
November	wet   moist		6.7-6.7-6.7   2.0-2.5-4.9		l I			
Movember	moist   wet		2.0-2.5-4.9   6.7-6.7-6.7	none		none		
December	wet   moist		6.7-6.7-6.7   2.3-3.0-5.2		l i		 	ļ !
December	moist   wet		2.3-3.0-5.2   6.7-6.7-6.7	none	<b></b>	none		
	wet	2.3-3.0-5.2	0.7-0.7-6.7		<u> </u>	!	!	!

I69A Wyandotte clay loam, 0 to 2 percent slopes

Wyandotte (65 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H					L-R-H
	ļ				ļ	·	ļ	
T	   moist		  1.6-2.1-4.1					
January			1.6-2.1-4.1   6.7-6.7-6.7	none	<del></del>	none		
February	wet   moist		2.0-2.6-4.9	none	l i	l none	l i	l i
rebruary	moist   wet		2.0-2.6-4.9   6.7-6.7-6.7		<del></del>	none		
March	wet   moist		11.5-2.3-4.1		l I	l none	! !	l I
March			6.7-6.7-6.7		 	none	 	 
April	moist		0.0-0.5-2.5	none	 	loccasional	   brief	I  0.0-0.3-0.5
APILI	wet		6.7-6.7-6.7	none	 	l	l prier	0 • 0 - 0 • 5 - 0 • 5 
May	moist	•	0.5-0.8-3.3	none	! !	loccasional	   brief	ı  0.0-0.3-0.5
ria,	wet		6.7-6.7-6.7		! 		21101	• • • • • • • • • • • • • • • • • • •
June	moist		0.8-1.6-4.1	none	i	occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		i			
July	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		none	i	
_	wet	1.6-3.0-4.9	6.7-6.7-6.7		İ	i	į	İ
August	moist	0.0-0.0-0.0	2.5-3.8-5.7	none	i	none	j	i
	wet	2.5-3.8-5.7	6.7-6.7-6.7		İ	İ	į	İ
September	moist	0.0-0.0-0.0	1.6-3.3-4.9	none	j	none	j	i
	wet	1.6-3.3-4.9	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
October	moist	0.0-0.0-0.0	1.3-2.5-4.1	none	i	rare	very brief	0.0-0.1-0.3
	wet	1.3-2.5-4.1	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	0.8-1.6-3.3	none		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
December	moist		1.3-2.0-3.9	none		none		
	wet	1.3-2.0-3.9	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I69A (continued)

Foxlake (10 percent of the map unit)

Month	  Moisture	l Ton	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
Month	status	Top depth	depth	frequency	duration	frequency	duration	depth
	Status 	depth   L - R - H	depth	rrequency	duration	Trequency	duration	L-R-H
		L - K - H	L - K - H		 	 		L - K - H
		l ————————————————————————————————————	l ————		l ————————————————————————————————————	l		l ————————————————————————————————————
January	moist	0.0-0.0-0.0	  0.8-2.1-4.1	none	 	none		 
_	wet	0.8-2.1-4.1	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none	j	i
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none	j	i
	wet	0.3-1.3-3.3	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		rare	very brief	0.0-0.2-0.3
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		rare	very brief	0.0-0.2-0.3
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7					
October	moist		0.8-1.6-3.3			occasional	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7					
November	moist		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
December	moist		0.8-1.6-3.3			none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					

Espelie (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 _	 	L - R - H 
January	   moist	0.0-0.0-0.0	 	none		none		i 
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
February	moist	0.0-0.0-0.0	2.0-2.6-4.9	none		none	ļ	i
	wet	2.0-2.6-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.5-2.3-4.9	none		none		
	wet	1.5-2.3-4.9	6.7-6.7-6.7					
- !	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
lay	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
June	moist		0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9	none	ļ	none		
			6.7-6.7-6.7					
lugust	moist		2.5-3.8-5.7	none		none		ļ
	wet		6.7-6.7-6.7		<u> </u>	!	!	!
September			1.6-3.3-4.9	none	ļ	rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7					
october	moist		1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7					
ovember	moist	•	0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7			ļ		
December	moist		1.3-2.0-3.9	none		none		
	wet	11.3-2.0-3.9	6.7-6.7-6.7			1	1	
	l	l			l	-	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I69A (continued)

Clearwater, depressional (5 percent of the map unit)

Month   1	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H   	L - R - H		 		 	L - R - H
January	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		  occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7		İ	i	İ	İ
February	moist	0.0-0.0-0.0	0.8-1.6-3.0	none		occasional	long	0.0-0.5-1.0
	wet	0.8-1.6-3.0	6.7-6.7-6.7					
March	moist		0.0-0.0-1.6	none		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0		none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8						
May	moist		0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.
			6.7-6.7-6.7					
June		0.0-0.0-0.0		none		occasional	long	0.0-0.5-1.
_		0.0-0.5-1.6						
July		0.0-0.0-0.0		none		occasional	brief	0.0-0.5-1.
			6.7-6.7-6.7			!		
August			0.8-1.6-3.0	none		occasional	brief	0.0-0.5-1.
g		0.8-1.6-3.0	0.5-1.3-2.5			  occasional	   brief	0.0-0.5-1.0
September	moist   wet		6.7-6.7-6.7	none	 	loccasionai	l prier	10.0-0.5-1.
October		0.5-1.3-2.5   0.0-0.0-0.0		none	l i	  occasional	   brief	0.0-0.5-1.
october		0.0-0.0-0.0   0.3-0.8-2.0		none	 	Occasionai	l prier	10.0-0.5-1.
November			0.2-0.5-1.6	none	l 	occasional	l l long	0.0-0.5-1.
NO VEHIDET	wet		6.7-6.7-6.7	none	 	l	l 10119	1
December		0.0-0.0-0.0		none	I I	occasional	   long	0.0-0.5-1.
December	wet	0.0-0.0-0.0   0.3-0.8-2.0		110110	I 		1 10119	

Thiefriver (5 percent of the map unit)

	I	I	I		ı	ı	I	I
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H 
January	moist		    1.6-2.1-4.1	none		none		
Uanuar y	wet		6.7-6.7-6.7		 	l none		 
February	moist		2.0-2.6-4.9		 	l none		! !
cordary	wet		6.7-6.7-6.7		i	110110	i	i
March	moist		11.5-2.3-4.9		i	none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
April   moi	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.5
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		į	İ	İ	İ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none	j	occasional	brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7		İ	İ	İ	ĺ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		occasional	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7		[			
July	moist		1.6-3.0-4.9			none		
	wet		6.7-6.7-6.7					
August	moist		2.5-3.8-5.7			none		
	wet		6.7-6.7-6.7					
September			1.6-3.3-4.9			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					
October	moist		1.3-2.5-4.1			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	!		!
November	moist		0.8-1.6-3.3		ļ	rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		1.3-2.0-3.9	none	!	none	ļ	!
	wet	1.3-2.0-3.9	6.7-6.7-6.7		!		!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I69A (continued)

Karlsruhe (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H			į		L-R-H
	l				 		 	 
January	moist		2.6-3.3-6.2	none		none	i	j
	wet		6.7-6.7-6.7			ļ	!	!
February	moist		3.3-4.1-6.7	none		none	ļ	ļ
			6.7-6.7-6.7					
March	moist		2.6-3.3-5.9	none		none		
	wet		6.7-6.7-6.7					
April	moist		1.5-2.0-3.3	none		none		
	wet		6.7-6.7-6.7			ļ		
May	moist		1.8-2.5-4.1	none		none		
			6.7-6.7-6.7					
June	moist		2.5-3.0-4.9	none		none		
	wet		6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist		3.0-3.6-6.7					
	wet		6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none		
	moist	0.0-0.0-0.5	4.1-6.7-6.7					
	wet	4.1-6.7-6.7	6.7-6.7-6.7					
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-4.1-6.7					
	wet	2.6-4.1-6.7	6.7-6.7-6.7			[		
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none		
	wet	3.0-4.3-5.7	6.7-6.7-6.7					
November	moist	0.0-0.0-0.0	2.0-2.5-4.9	none		none	i	
	wet	2.0-2.5-4.9	6.7-6.7-6.7			[		
December	moist	0.0-0.0-0.0	2.3-3.0-5.6	none		none	i	
	wet	2.3-3.0-5.6	6.7-6.7-6.7			I	I	I

Syrene (3 percent of the map unit)

			1					
Month	  Moisture	   Top	   Bottom	   Flooding	   Flooding	Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ I	L - R - H	L - R - H	 	l I	į I	İ I	L - R - H
January	moist	    0.0-0.0-0.0	2.0-3.0-4.9	none		none		   
January	wet		6.7-6.7-6.7		i	10110	i	i i
February	moist		12.5-3.3-5.7	•	i	none	i	i
-	wet	2.5-3.3-5.7	6.7-6.7-6.7		i		i	i
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none	i	none	i	i
	wet	1.6-2.5-4.1	6.7-6.7-6.7	İ	į	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none	j	occasional	very brief	0.0-0.3-0.5
	wet	0.0-0.3-2.5	6.7-6.7-6.7		İ	Ì	İ	ĺ
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		rare	very brief	0.0-0.3-0.5
	wet	0.5-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	1.0-1.6-2.5	none		rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7	•	1			
July	moist		1.6-2.5-4.9			none		
			6.7-6.7-6.7					
August	moist		2.5-3.3-5.7	•		none		
	wet		6.7-6.7-6.7		!		!	!
September			1.3-2.5-4.9	•	ļ	none	ļ	ļ
	wet		6.7-6.7-6.7			ļ		ļ
October	moist		1.0-2.1-4.1	•	ļ	none	ļ	
			6.7-6.7-6.7	•			ļ	
November	moist		0.8-1.6-3.3	•		none		
B	wet		6.7-6.7-6.7	•	1		1	
December	moist		1.6-2.1-4.1	•		none		
	wet	11.6-2.1-4.1	10.7-6.7-6.7	 	1	1		 
		l —————	l		l	I	·	l ————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I70A Strathcona fine sandy loam, 0 to 2 percent slopes

Strathcona (70 percent of the map unit)

					1		1	
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į	L-R-H	L-R-H		İ	į	į	L - R - H
	ļ	!	 			-	ļ	
January	moist		1.6-3.0-4.1		ļ	none		ļ
	wet		6.7-6.7-6.7			ļ.	ļ	ļ
February	moist		2.5-3.3-4.9		ļ	none		ļ
_	wet		6.7-6.7-6.7			ļ.	ļ	ļ
March	moist		1.6-2.1-4.1		!	none	!	ļ
	wet		6.7-6.7-6.7		!		!	!
April	moist		0.0-0.5-2.5		ļ	occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!		!	!
May	moist		0.5-0.8-3.3		!	occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	ļ	!	!
June	moist		0.8-1.6-4.1		ļ	rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7		!	ļ	!	!
July	moist		1.6-3.3-4.9		ļ	none		ļ
			6.7-6.7-6.7		!	ļ	!	!
August	moist		2.5-4.1-5.7		ļ	none		ļ
	wet		6.7-6.7-6.7		!	ļ	!	!
September	:		1.6-3.3-4.9		!	none	!	ļ
_	wet		6.7-6.7-6.7			ļ.		
October	moist		1.3-2.5-4.1		!	rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7			ļ.		
November	moist		0.8-1.6-3.3		!	rare	very brief	0.0-0.1-0.3
	wet		6.7-6.7-6.7		!	ļ	!	!
December	moist		1.3-2.1-3.8		!	none	!	!
	wet	1.3-2.1-3.8	6.7-6.7-6.7		!	ļ.	!	!
						_	.	

Kratka (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	ĺ	L-R-H	L-R-H		į		İ	L - R - F
	 	 			l			
anuary	moist	0.0-0.0-0.0	1.6-3.0-4.1	none	i	none	j	j
	wet	1.6-3.0-4.1	6.7-6.7-6.7					1
ebruary	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet	2.5-3.3-4.9	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none		none		
	wet	1.6-2.1-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					[
lay	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0
	wet	0.5-0.8-3.3	6.7-6.7-6.7					[
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0
			6.7-6.7-6.7					
July			1.6-3.3-4.9	none		none		
	wet	1.6-3.3-4.9	6.7-6.7-6.7					
lugust			2.5-4.1-5.7			none		
	wet		6.7-6.7-6.7					
September	moist		1.6-3.3-4.9	none		none		
			6.7-6.7-6.7					
october			1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0
			6.7-6.7-6.7					
ovember			0.8-1.6-3.3			rare	very brief	0.0-0.1-0
			6.7-6.7-6.7			1		Į.
December			1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7			1		Į.
						.	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I70A (continued)

Roliss (6 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 	[ [	 	L - R - H
January	moist			none			 	   
January			1.0-3.0-4.1   6.7-6.7-6.7	none	 	none	 	 
February			2.5-3.3-4.9	none	l 	l none	I I	l I
1 022 442 7			6.7-6.7-6.7		i I		İ	i I
March			1.3-2.1-3.3	none	i	none	i	
	wet	1.3-2.1-3.3	6.7-6.7-6.7		İ	İ	i	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7		ĺ	Ì	ĺ	
May	moist	0.0-0.0-0.0	0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet	0.3-0.8-3.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet	0.7-1.3-4.1	6.7-6.7-6.7					
July			1.6-3.0-4.9	none		none		
			6.7-6.7-6.7					
August			2.5-3.8-5.7	none		none		
			6.7-6.7-6.7					
September			2.0-3.3-4.9	none	ļ	rare	very brief	0.0-0.3-0.5
_			6.7-6.7-6.7					
October			1.3-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			!		
November			0.8-1.3-3.3	none		occasional	brief	0.0-0.3-0.5
_ ,			6.7-6.7-6.7					
December			1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7		<u> </u>	!	I	

Grimstad (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - I 
January	   moist	0.0-0.0-0.0	  2.5-3.8-5.7	none		none	 	 
	wet		6.7-6.7-6.7		i		i	i
February	moist	0.0-0.0-0.0	3.3-4.6-6.7	none	i	none	i	i
	wet	3.3-4.6-6.7	6.7-6.7-6.7		İ	İ	İ	j
March	moist	0.0-0.0-0.0	2.5-3.0-5.7	none		none	i	i
	wet	2.5-3.0-5.7	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.8-1.5-3.3	none		none		
	wet		6.7-6.7-6.7					
May	moist		1.1-1.8-4.1	none		none		
	wet		6.7-6.7-6.7					
June	moist		1.6-3.3-4.9	none	ļ	none	!	!
			6.7-6.7-6.7		!	!	!	!
July	dry		0.0-0.0-0.3	none		none	ļ	
	moist		2.5-5.7-6.2					!
			6.7-6.7-6.7					
August			0.0-0.0-0.5	none		none		
7			6.7-6.7-6.7   0.0-0.0-0.3		 			
September	dry moist		0.0-0.0-0.3   2.5-3.8-6.7	none	 	none		
			2.5-3.8-6.7   6.7-6.7-6.7		l I	I I	l I	l I
October	moist		0.7-0.7-0.7   2.0-3.0-5.6	none	l 	none	! !	! !
occoper	wet		6.7-6.7-6.7	none	 	l none	I	 
November	moist		1.6-2.5-4.9	none	l 	l none	l I	! !
/ CIMOCI			6.7-6.7-6.7	110110	! 		İ	i
December	moist		2.0-3.3-5.4	none	i	none	! 	i
	wet	2.0-3.3-5.4			i İ		i i	i

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I70A (continued)

Mavie (3 percent of the map unit)

					ļ .	1	1	!
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 .	L - R - H 	L - R - H   		 	 -	 	L - R - н 
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none		 
-	wet	1.6-3.0-4.1	6.7-6.7-6.7		i	i	i	i
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	i	i
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	i	İ	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	j	none		i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		[			
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7		[			
May	moist		0.5-0.8-3.3			occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		[			
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
July	moist		1.6-3.3-4.9			none		ļ
			6.7-6.7-6.7			!	!	!
August	!		2.5-4.1-5.7			none	!	ļ
	wet		6.7-6.7-6.7			ļ		!
September	•		1.6-3.3-4.9			none		
October			6.7-6.7-6.7				 	
October	moist   wet		1.3-2.5-4.1   6.7-6.7-6.7			rare	very brier	0.0-0.3-0.
November			0.7-6.7-6.7   0.8-1.6-3.3		l i	l none	l i	 
November	wet		0.8-1.8-3.3   6.7-6.7-6.7			none		 
December	wet   moist		1.3-2.1-3.8			l none		! !
pecemper	wet		1.3-2.1-3.8   6.7-6.7-6.7	110116	 	l mone	 	ı I
	l wer	± • 5 - 2 • 1 - 3 • 6   	0 • 7 = 0 • 7   		1 			! 
	· I —————	I ————	l ————————————————————————————————————		I	-1	1	I —————

Rosewood (3 percent of the map unit)

	1	I	I I			1	I	
Month	  Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 			L - R - H
January	moist			none		none		
Uanuar y	wet		2.0-2.3-4.9   6.7-6.7-6.7			l none		
February	moist		2.5-3.3-5.7			none		
r cor dar y	wet		6.7-6.7-6.7			10110	i	;
March	moist		11.6-2.1-4.1			none	i	i
	wet		6.7-6.7-6.7		i		i	i
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
_	wet	0.0-0.5-2.5	6.7-6.7-6.7		İ	i	İ	į
May	moist	0.0-0.0-0.0	0.5-1.3-3.3	none	j	occasional	very brief	0.0-0.3-0.
	wet	0.5-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.
	wet	0.8-1.6-4.1	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.6-3.3-4.9	none		none		
	wet		6.7-6.7-6.7					
August	moist		2.5-4.9-5.7			none		
	wet		6.7-6.7-6.7					
September			1.3-3.0-4.9			none		
	wet		6.7-6.7-6.7		<u> </u>			!
October	moist		1.0-2.1-4.1			rare	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7		!		!	!
November	moist		0.8-1.6-3.3			none	ļ	ļ
	wet		6.7-6.7-6.7		!	ļ	!	ļ.
December	moist		1.3-2.1-4.1	none	ļ	none	ļ	!
	wet	1.3-2.1-4.1	6.7-6.7-6.7			!	!	!
	l					_	.	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I70A (continued)

Strathcona, depressional (3 percent of the map unit)

Month	   Madestona		Datte.	Flooding	   Flooding	Ponding	Ponding	Ponding
Montn	Moisture   status	-	Bottom		flooding   duration		Ponding   duration	
	status 	depth	depth L-R-H	frequency	duration	frequency	duration	depth
		L - к - н	ь-к-н		l i	 	 	L - к - н
	l	l ————————————————————————————————————			l			
January	   moist	  0.0-0.0-0.0	  1.0-1.6-3.0	none	 	  occasional	l l long	  0.0-0.5-1.0
_	wet	1.0-1.6-3.0	6.7-6.7-6.7		<u> </u> 	i	i	İ
February	moist	0.0-0.0-0.0	1.6-2.5-3.3	none		occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-3.3	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	0.0-0.0-2.0	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0	0.0-0.0-1.0	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.0	6.7-6.7-6.7			[		
May	moist	0.0-0.0-0.0	0.0-0.0-2.0	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-2.0	6.7-6.7-6.7			[		
June	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7			[		
July	moist	•	0.7-1.6-3.0			rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	1.6-2.5-3.6	none		rare	very brief	0.0-0.3-0.5
	wet	1.6-2.5-3.6	6.7-6.7-6.7					
September	moist		1.0-1.6-3.0			rare	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7	!				
October	moist		0.7-1.3-2.6	!		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
November	moist	•	0.3-0.8-1.6			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7	!				
December	moist		0.7-1.3-2.3	!		occasional	long	0.0-0.5-1.0
	wet	0.7-1.3-2.3	6.7-6.7-6.7					

I71A Berner and Cathro soils, ponded, MLRA 56, 0 to 1 percent slopes

Berner, ponded (45 percent of the map unit)

Month	  Moisture	   Top	Bottom	Flooding	   Flooding	Ponding	   Ponding	   Ponding
Month	:	_	!	_			1	!
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
	ĺ	ĺ	į į		İ	İ	İ	Ì
January	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
February	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
March	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
April	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
May	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
June	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
July	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
August	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
September	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
October	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
November	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
December	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
	l						.	.

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I71A (continued)

Cathro, ponded (45 percent of the map unit)

Month	  Moisture	   Top	Bottom	Flooding	   Flooding	   Ponding	   Ponding	   Ponding
MOIICII			!		!		!	!
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
	İ	ĺ	į į		İ	İ	İ	İ
January	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
February	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
March	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
April	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
May	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
June	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
July	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
August	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
September	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
October	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
November	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
December	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0

Hamre (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L-R-H
January	moist		0.8-1.6-3.3			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
February	moist		1.6-2.5-4.1			occasional	long	0.0-0.5-1.0
		1.6-2.5-4.1						
March	moist		0.0-0.0-2.5			occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
April	moist		0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
June	moist		0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.2-0.8-2.5	none		rare	very brief	0.0-0.3-0.5
	wet	0.2-0.8-2.5	6.7-6.7-6.7					
August	moist		0.8-1.6-3.3			rare	very brief	0.0-0.3-0.5
	wet	0.8-1.6-3.3	6.7-6.7-6.7					
September	moist		0.5-1.3-3.0			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	0.3-0.8-2.5	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
November	moist		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
	wet	0.0-0.3-1.6	6.7-6.7-6.7					
December	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					
	l						l	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I71A (continued)

Kratka (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H   		 	 	 	L - R - н 
January	moist	0 - 0 - 0 - 0 - 0	 	none	   	none	i i	   
,			6.7-6.7-6.7		i I		i	i I
February			2.5-3.3-4.9	none		none	i	
_	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	i	i	İ
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none	j	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		ĺ	İ	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
			6.7-6.7-6.7				1	
June	moist	0.0-0.0-0.0	0.8-1.6-4.1	none		rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7					
July			1.6-3.3-4.9	none		none		
			6.7-6.7-6.7				ļ	
August	moist		2.5-4.1-5.7	none		none		
			6.7-6.7-6.7		!	!	!	
September			1.6-3.3-4.9	none		none	ļ	
			6.7-6.7-6.7					
October			1.3-2.5-4.1	none		rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7					
November			0.8-1.6-3.3	none		rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7				!	l
December			1.3-2.1-3.8	none		none		
	wet	1.3-2.1-3.8	6.7-6.7-6.7		<u> </u>	!	1	

Northwood (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	[ [	L - R - H	L - R - H		ļ	1	l	L - R - H
						·		
January	   moist	  0.0-0.0-0.0	  0.8-1.6-3.3	none	 	  occasional	l long	  0.0-0.5-1.0
	wet	0.8-1.6-3.3	6.7-6.7-6.7		ĺ	İ		ĺ
February	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		occasional	long	0.0-0.5-1.0
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-2.5	6.7-6.7-6.7					
April			0.0-0.0-0.8			frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May			0.0-0.0-1.3			frequent	long	0.0-0.5-1.0
			6.7-6.7-6.7					
June			0.0-0.5-1.6			frequent	brief	0.0-0.5-1.0
			6.7-6.7-6.7					
July			0.2-0.8-2.5			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			ļ		
August			0.8-1.6-3.3		ļ	rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7		!	1		
September	moist		0.5-1.3-3.0		ļ	occasional	brief	0.0-0.3-0.5
_			6.7-6.7-6.7					
October			0.3-0.8-2.5			occasional	brief	0.0-0.5-1.0
			6.7-6.7-6.7			!	! -	
November	: :		0.0-0.3-1.6			occasional	long	0.0-0.5-1.0
_	wet		6.7-6.7-6.7			!	! -	
December	: :		0.5-1.3-2.5			occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					l i
	l ————————————————————————————————————	l	l —————		l ————	- I ——————	I	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I71A (continued)

Roliss (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 			L - R - H
_								
January	moist		1.6-3.0-4.1	none		none		
<b>-</b> -1	wet   moist		6.7-6.7-6.7   2.5-3.3-4.9				1	
February	moist   wet			none		none		
March	wet   moist		6.7-6.7-6.7   1.3-2.1-3.3				 	 
March	moist   wet		1.3-2.1-3.3   6.7-6.7-6.7			none		
April	wet   moist		0.7-0.7-0.7   0.0-0.5-2.5	none	I I	  occasional	   brief	  0.0-0.3-0.!
ADIII	wet		0.0-0.3-2.5   6.7-6.7-6.7	none		Occasional	l prier	1
May	wet   moist		0.7-0.7-0.7   0.3-0.8-3.3	none	l	  occasional	   brief	  0.0-0.3-0.
nay	wet		6.7-6.7-6.7			l	l prier	0 • 0 = 0 • 5 = 0 • ·
June	moist		0.7-0.7-0.7   0.7-1.3-4.1	none		occasional	very brief	I   0
ounc			6.7-6.7-6.7	110110	i i	I		O.O O.S O.
July	moist		1.6-3.0-4.9	none	i	none	i	i
0 412			6.7-6.7-6.7		i		i	İ
August			2.5-3.8-5.7			none	i	i
	wet		6.7-6.7-6.7		i	i	i	i
September	moist		2.0-3.3-4.9	none	i	rare	very brief	0.0-0.3-0.
-	wet	2.0-3.3-4.9	6.7-6.7-6.7		i	i	i -	i
October	moist	0.0-0.0-0.0	1.3-1.6-4.1	none	j	rare	very brief	0.0-0.3-0.
	wet	1.3-1.6-4.1	6.7-6.7-6.7		İ	i	į -	İ
November	moist	0.0-0.0-0.0	0.8-1.3-3.3	none	i	occasional	brief	0.0-0.3-0.
	wet	0.8-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	1.3-2.1-3.8	none		none		i
	wet	1.3-2.1-3.8	6.7-6.7-6.7		1		1	I
	I	I	ĺ		1	I		I

Seelyeville, ponded (2 percent of the map unit)

	I	I			I	I		1
Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L - R - H					L - R - H
	.						.	.
January	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
February	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
March	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
April	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
May	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
June	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
July	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
August	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
September	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
October	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
November	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
December	wet	0.0-0.0-0.0	6.7-6.7-6.7	none		frequent	very long	0.0-1.0-4.0
	.						.	.

### Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I72A Pelan sandy loam, MLRA 56, 0 to 3 percent slopes

Pelan (65 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	į I	L - R - H	L - R - H		 	İ	j I	L - R - H
January	moist	    0 0-0 0-0 0		none		none	   	   
Januar y	wet		<del>1.</del> 0-3.4-0.7     6.7-6.7-6.7		 	l none	i	i
February	moist		5.2-5.7-6.7			none	¦ 	! !
. 022 442 7	wet		6.7-6.7-6.7		 		i	i
March	moist		3.3-4.6-6.7	none		none	i	i
	wet	3.3-4.6-6.7	6.7-6.7-6.7		<u> </u>	İ	i	i
April	moist	0.0-0.0-0.0	1.3-2.5-4.9	none		none	j	i
	wet	1.3-2.5-4.9	6.7-6.7-6.7		İ	İ	į	İ
May	moist	0.0-0.0-0.0	2.0-3.0-5.6	none	i	none	j	j
	wet	2.0-3.0-5.6	6.7-6.7-6.7		İ	İ	İ	İ
June	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none	j	i
	moist	0.0-0.0-0.5	2.6-3.6-6.2			İ	ĺ	ĺ
	wet	2.6-3.6-6.2	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist		3.9-5.4-6.7					
	wet		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0			none		
	moist		5.4-6.7-6.7					
	wet		6.7-6.7-6.7					
September			0.0-0.0-0.3			none		
	moist		4.1-4.6-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.6-3.9-6.7	none		none	!	!
	wet		6.7-6.7-6.7				!	!
November	moist		2.5-3.3-5.7			none	!	!
	wet		6.7-6.7-6.7			!	ļ.	!
December	moist		3.9-4.6-6.2	none		none	!	!
	wet	3.9-4.6-6.2	6.7-6.7-6.7			!	!	!
						l		

Smiley (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  1.6-3.0-4.1	none		none	i i	
_	wet	1.6-3.0-4.1	6.7-6.7-6.7			i	i	
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none	i	none	j	
	wet	2.5-3.3-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none		
	wet	1.3-2.1-3.3	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
May	moist		0.3-0.8-3.3	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.7-1.3-4.1	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.6-3.0-4.9	none		none		
			6.7-6.7-6.7		!	ļ	!	
August	moist		2.5-3.8-5.7	none	ļ	none	!	
_	wet		6.7-6.7-6.7		!	ļ		
September	moist		2.0-3.3-4.9	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			!		
October	moist		1.3-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7			1	1 2004 - 6	
November	moist		0.8-1.3-3.3   6.7-6.7-6.7	none		occasional	brief	0.0-0.3-0.5
December	wet     moist		0.7-6.7-6.7   1.3-2.1-3.8	nono	l I	l none	] 	] 
December			1.3-2.1-3.8   6.7-6.7-6.7	none	 	none		<del></del>
	l wet	1.3-2.1-3.8	0./-0./-0./		!	!	!	

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I72A (continued)

Linveldt (8 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L-R-H				 	L - R - H
January	moist		4.8-5.4-6.7	none		none		ļ
_	wet	4.8-5.4-6.7				ļ		!
February	moist	0.0-0.0-0.0		none		none		!
_	wet		6.7-6.7-6.7			!	ļ	!
March	moist	0.0-0.0-0.0		none		none		ļ
	wet	3.3-4.6-6.7						
April	moist	0.0-0.0-0.0		none		none		
	wet	1.3-2.5-4.9						
May	moist		2.0-3.0-5.6	none		none		ļ
_	wet	2.0-3.0-5.6				!		ļ
June	dry   moist	0.0-0.0-0.0		none		none		
		0.0-0.0-0.5			l i	!	l i	
T1	wet   dry	2.6-3.6-6.2	6.7-6.7-6.7     0.0-0.0-0.7	none	l i		l i	
July		0.0-0.0-0.0   0.0-0.0-0.7		none		none		
	moist   wet		3.9-5.4-6.7   6.7-6.7-6.7				l I	l i
August	wet   dry	3.9-5.4-6.7    0.0-0.0-0.0		none		l none	l I	l i
August	moist	0.0-0.0-0.0		none		none	 	 
	wet		6.7-6.7-6.7			-	l I	<u> </u>
September			0.7-0.7-0.7	none		l none	l I	! !
pepcember	moist		4.1-4.6-6.7	110116	 	none	I	 
	wet		6.7-6.7-6.7			1	l İ	:
October	moist		3.6-3.9-6.7	none		l none	! 	! !
DCCCDCI	wet	3.6-3.9-6.7		110110		110110	! 	i
November	moist		2.5-3.3-5.7	none		none	i	i
	wet	2.5-3.3-5.7					i I	i
December	moist		3.9-4.6-6.2	none		none	i	i
	wet		6.7-6.7-6.7			i	i	i
						1	:	i

Kratka (5 percent of the map unit)

	1	1	1			1	1	1
Month	  Moisture	   Top	   Bottom	Flooding	   Flooding	   Ponding	   Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 			L - R - H 
January	moist	10.0-0.0-0.0	11.6-3.0-4.1	none		none	i 	i i
ounuur,	wet		6.7-6.7-6.7		İ	110110	i	i i
February	moist		2.5-3.3-4.9			none	i	i
-	wet		6.7-6.7-6.7		i	i	i	i
March	moist	0.0-0.0-0.0	1.6-2.1-4.1	none	i	none	j	i
	wet	1.6-2.1-4.1	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none	i	occasional	brief	0.0-0.3-0.
	wet	0.0-0.5-2.5	6.7-6.7-6.7			1	1	1
May	moist	0.0-0.0-0.0	0.5-0.8-3.3	none		occasional	very brief	0.0-0.3-0.
	wet	0.5-0.8-3.3	6.7-6.7-6.7					[
June	moist		0.8-1.6-4.1			rare	very brief	0.0-0.1-0.
	wet		6.7-6.7-6.7					[
July	moist		1.6-3.3-4.9			none		
	wet		6.7-6.7-6.7		!	!	ļ	!
August	moist		2.5-4.1-5.7			none	!	!
	wet		6.7-6.7-6.7			ļ	!	
September	!		1.6-3.3-4.9			none		
October	wet   moist		6.7-6.7-6.7   1.3-2.5-4.1					  0.0-0.1-0.:
October	moist		1.3-2.5-4.1  6.7-6.7-6.7			rare	very brier	10.0-0.1-0.
November	wet   moist		0.8-1.6-3.3		I	   rare	lucry briof	  0.0-0.1-0.3
November	wet		6.7-6.7-6.7			rare	very prier	0 · 0 - 0 · 1 - 0 · .
December	moist		1.3-2.1-3.8			l none		! 
December	wet		6.7-6.7-6.7			1 110116		 
	""					<u> </u>	1	<u> </u>
	1	I —————	I —————		I	-1	-1	I

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I72A (continued)

Strandquist (5 percent of the map unit)

Month	  Moisture	l Top	   Bottom	Flooding	   Flooding	Ponding	   Ponding	l   Ponding
MOITCII	status	depth	depth	frequency	duration	frequency	duration	depth
	   	L - R - H	L-R-H		   			L - R - H
January	moist	0.0-0.0-0.0	1.6-3.0-4.1	none		none		 
	wet	1.6-3.0-4.1	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none		
	wet		6.7-6.7-6.7					
March	moist		1.6-2.1-4.1	none		none		
	wet		6.7-6.7-6.7					
April	moist		0.0-0.5-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!			
May	moist		0.5-0.8-3.3		!	occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7		!	!	!	
June	moist		0.8-1.6-4.1	none		rare	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7			ļ	ļ	
July	moist		1.6-3.3-4.9			none	ļ	
	wet		6.7-6.7-6.7				!	
August	moist		2.5-4.1-5.7			none	!	
a	wet   moist		6.7-6.7-6.7   1.6-3.3-4.9		 			l i
September	moist   wet		6.7-6.7-6.7		<del></del>	none		
October	wet   moist		11.3-2.5-4.1			rare	lucry briof	  0.0-0.3-0.5
occoper	wet		6.7-6.7-6.7		 	l rare	very prier	0.0-0.3-0.3
November	moist		0.8-1.6-3.3		 	l none		l I
10 Culber	wet		6.7-6.7-6.7		 	l mone		 
December	moist		11.3-2.1-3.8		! 	l none		! 
December	wet		6.7-6.7-6.7	110116		l		
	"""	i			i	i	i	i
						1		

Reiner (4 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
ľ	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	 	none	 	none	i	i i
	wet	4.1-5.4-6.7	6.7-6.7-6.7		İ	i	į	İ
February	moist	0.0-0.0-0.0	4.9-5.9-6.7	none	i	none	j	i
İ	wet	4.9-5.9-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.9-6.7	none		none	j	i
İ	wet	3.3-4.9-6.7	6.7-6.7-6.7			İ	ĺ	
April	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
ľ	wet	1.6-2.5-4.1	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	2.1-2.8-4.9	none		none		
ľ	wet	2.1-2.8-4.9	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	2.6-3.1-5.7	none		none		
ŀ	wet	2.6-3.1-5.7	6.7-6.7-6.7					
July	dry		0.0-0.0-0.3	none		none		
l			3.3-5.7-6.7					
ŀ			6.7-6.7-6.7					
August	dry		0.0-0.0-0.5	none		none		
	moist		4.9-6.7-6.7			ļ		
	wet		6.7-6.7-6.7			ļ		
September	dry		0.0-0.0-0.3	none		none	!	
ļ			3.6-4.9-6.7			!	!	
_	wet		6.7-6.7-6.7			!	!	
October	moist		3.0-4.3-5.7	none		none	!	
	wet		6.7-6.7-6.7			!		
November	moist		2.3-3.3-4.9	none		none		
_ ,	wet		6.7-6.7-6.7			1		l
December	moist wet	0.0-0.0-0.0  3.3-4.6-5.7	3.3-4.6-5.7	none		none		!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I72A (continued)

Eckvoll (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H 	L - R - H		 	 	 	L - R - H 
January	moist		4.6-5.4-6.7	none		none		
	wet		6.7-6.7-6.7			ļ		!
February	moist		4.9-5.7-6.7	none		none		ļ
36 1-	wet		6.7-6.7-6.7					!
March	moist		3.3-4.6-6.7	none		none		ļ
3	wet		6.7-6.7-6.7					!
April	moist   wet		2.1-2.5-4.6   6.7-6.7-6.7	none		none		
Varr	wet   moist		6.7-6.7-6.7    2.6-3.1-5.2	none	 	l I none	l I	
May	moist   wet		2.6-3.1-5.2   6.7-6.7-6.7	none		l none		
June	wet   dry		0.7-6.7-6.7   0.0-0.0-0.3	none	l I	l I none	! !	 
oune	moist		2.6-3.8-6.2	none	 	l none	 	 
	wet		2.0-3.8-6.2     6.7-6.7-6.7		 	I I	I I	<u> </u>
July	dry		0.7-0.7-0.7	none	! !	l I none	! !	¦
oury	moist		3.8-4.9-6.7		 	l none	 	
	wet		6.7-6.7-6.7		! 	! 	! 	<u> </u>
August	dry		0.0-0.0-0.8	none	 	l none	 	i
	moist		5.2-6.7-6.7	110110	i I	110110	İ	i
	wet		6.7-6.7-6.7		i	i	i	i
September	dry		0.0-0.0-0.3	none	i	l none	i	i
	moist		3.8-4.1-6.7		İ	i	i	i
	wet		6.7-6.7-6.7		İ	İ	i	i
October	moist	0.0-0.0-0.0	3.3-3.8-6.7	none	i	none	i	i
	wet	3.3-3.8-6.7	6.7-6.7-6.7		İ	İ	İ	İ
November	moist	0.0-0.0-0.0	2.5-3.3-5.6	none	i	none	i	i
	wet	2.5-3.3-5.6	6.7-6.7-6.7		İ	İ	İ	İ
December	moist	0.0-0.0-0.0	3.8-4.1-6.2	none	i	none	j	i
	wet	3.8-4.1-6.2	6.7-6.7-6.7		İ	İ	İ	İ
	i	İ	i i		i	İ	i	i

I73A Boash clay loam, 0 to 2 percent slopes

Boash (75 percent of the map unit)

Month	Moisture   status	Top depth	Bottom depth	Flooding frequency	Flooding duration	Ponding frequency	Ponding   duration	Ponding depth
	 	L - R - H	L-R-H		 	 	 	L - R - H 
January	   moist	0.0-0.0-0.0	  0.8-2.1-4.1	none	 	l none	 	 
oundary	wet		6.7-6.7-6.7	110110	! 	110110	i	! 
February	moist		1.6-2.5-4.9	none		none		
_	wet	1.6-2.5-4.9	6.7-6.7-6.7		i	i	i	İ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none	i	none	i	i
	wet	0.3-1.3-3.3	6.7-6.7-6.7		İ	İ	İ	İ
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none	i	occasional	brief	0.0-0.3-0.5
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
June	moist		0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July	moist		1.3-2.1-4.1	none	ļ	rare	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7		!	!		
August	moist		1.6-3.0-4.9	none	ļ	rare	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7				!	
September			1.3-2.5-4.1	none		rare	very brief	0.0-0.2-0.3
			6.7-6.7-6.7					
October	moist   wet		0.8-1.6-3.3   6.7-6.7-6.7	none		occasional	very brief	0.0-0.2-0.3
November	wet   moist		0.7-0.7-0.7   0.5-1.3-2.5		l i	  occasional	   brief	  0.0-0.3-0.5
MOVEMBEL	moist   wet		0.5-1.3-2.5   6.7-6.7-6.7	none	 	Occasional	Drier	0.0-0.3-0.5 
December	wet   moist		0.7-6.7-6.7   0.8-1.6-3.3	none	l 	l none		! !
pecemper	wet		0.8-1.8-3.3   6.7-6.7-6.7	110116	I I	l none	 	ı I
	1	0.0 1.0-3.5	0.7   0.7		I I	!	!	!

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I73A (continued)

Clearwater (8 percent of the map unit)

Month	  Moisture	l Ton	Bottom	Flooding	   Flooding	Ponding	Ponding	Ponding
Month	status	Top depth	depth	frequency	duration	frequency	duration	depth
	Status 	L-R-H	depth	rrequency	duration	Trequency	duration	L-R-H
		L - K - H	L - K - H		 	 		L - K - H
		l ————————————————————————————————————	l ————		l ————————————————————————————————————	l		l ————————————————————————————————————
January	moist	0.0-0.0-0.0	  0.8-2.1-4.1	none	 	none		 
_	wet	0.8-2.1-4.1	6.7-6.7-6.7		İ	İ	į	İ
February	moist	0.0-0.0-0.0	1.6-2.5-4.9	none	i	none	i	i
	wet	1.6-2.5-4.9	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	0.3-1.3-3.3	none		none	j	i
	wet	0.3-1.3-3.3	6.7-6.7-6.7		İ	ĺ	ĺ	ĺ
April	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
	wet	0.0-0.5-2.5	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.8-1.3-3.3	none		occasional	very brief	0.0-0.3-0.5
	wet	0.8-1.3-3.3	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.3-2.1-4.1	none		rare	very brief	0.0-0.2-0.3
	wet	1.3-2.1-4.1	6.7-6.7-6.7					
August	moist	0.0-0.0-0.0	1.6-3.0-4.9	none		rare	very brief	0.0-0.2-0.3
	wet	1.6-3.0-4.9	6.7-6.7-6.7					
September	moist	0.0-0.0-0.0	1.3-2.5-4.1	none		rare	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7					
October	moist		0.8-1.6-3.3			occasional	very brief	0.0-0.2-0.3
	wet		6.7-6.7-6.7					
November	moist		0.5-1.3-2.5			occasional	brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
December	moist		0.8-1.6-3.3	!		none		
	wet	0.8-1.6-3.3	6.7-6.7-6.7					

Roliss (8 percent of the map unit)

						l	l	l
Month	Moisture		Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H 	 		 	 	L - R - H 
January	   moist	  0.0-0.0-0.0	  1.6-3.0-4.1	none	 	none	 	 
	wet	1.6-3.0-4.1	6.7-6.7-6.7	ĺ		İ	İ	İ
February	moist	0.0-0.0-0.0	2.5-3.3-4.9	none		none	j	
	wet	2.5-3.3-4.9	6.7-6.7-6.7	İ	İ	İ	İ	İ
March	moist	0.0-0.0-0.0	1.3-2.1-3.3	none		none	j	
	wet	1.3-2.1-3.3	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.5-2.5	none		occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7	•				
May			0.3-0.8-3.3			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7	•				
June			0.7-1.3-4.1			occasional	very brief	0.0-0.3-0.5
	wet		6.7-6.7-6.7					
July			1.6-3.0-4.9	•		none		
			6.7-6.7-6.7	•		!	!	
August	moist		2.5-3.8-5.7	•		none	!	
_			6.7-6.7-6.7	•		<u> </u>		
September			2.0-3.3-4.9			rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
October			1.3-1.6-4.1	•		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7	•				
November			0.8-1.3-3.3			occasional	brief	0.0-0.3-0.5
			6.7-6.7-6.7	•				
December	moist		1.3-2.1-3.8  6.7-6.7-6.7		<del></del>	none		 
	wet	1.3-2.1-3.8 	10.7-0.7-0.7	] 	l I	I I	I I	] 
	1	ı	I	I	l .	I	1	ı

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I73A (continued)

Clearwater, depressional (5 percent of the map unit)

Month	  Moisture	Top	Bottom	Flooding	   Flooding	Ponding	Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	İ	L-R-H	L-R-H	İ	İ	i	İ	L-R-H
	İ	İ	İİ	İ	İ	_	İ	İ
January	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		occasional	long	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					
February	moist	0.0-0.0-0.0	0.8-1.6-3.0	none		occasional	long	0.0-0.5-1.0
	wet	0.8-1.6-3.0	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.0-1.6	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.0-1.6	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-0.8	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-0.8	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.0-1.3	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.3	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.0-0.5-1.6	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.5-1.6	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.0
	wet	0.5-1.3-2.5	6.7-6.7-6.7					
August	moist		0.8-1.6-3.0	•		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
September	moist	0.0-0.0-0.0	0.5-1.3-2.5	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
October	moist	0.0-0.0-0.0	0.3-0.8-2.0	none		occasional	brief	0.0-0.5-1.0
	wet		6.7-6.7-6.7	•				
November	moist		0.2-0.5-1.6	•		occasional	long	0.0-0.5-1.0
	wet		6.7-6.7-6.7					
December	moist		0.3-0.8-2.0	•		occasional	long	0.0-0.5-1.0
	wet	0.3-0.8-2.0	6.7-6.7-6.7					
	l					_		.

Kittson (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	j I	L-R-H	L-R-H		j I	j I	<u> </u> 	L - R - I 
January	moist		4.1-5.4-6.7	none		none	   	
January	moist   wet		4.1-3.4-6.7   6.7-6.7-6.7	none	 	l none	 	 
February	wet   moist		4.9-5.9-6.7	none	l 	l none	l I	l I
ebruary			4.9-3.9-6.7   6.7-6.7-6.7	none	 	l Hone	 	 
March			3.3-4.9-6.7	none	l	l none	l I	 
101			6.7-6.7-6.7	110110	! 	1	l I	! 
April		0.0-0.0-0.0		none	! 	l none	! 	I
			6.7-6.7-6.7		i I		i I	i I
May		0.0-0.0-0.0		none		l none		i
2	wet		6.7-6.7-6.7		i		İ	İ
June	dry		0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.1-5.7		İ	i	İ	İ
	wet	2.6-3.1-5.7	6.7-6.7-6.7		İ	i	İ	İ
July	dry	0.0-0.0-0.0	0.0-0.0-0.3	none	i	none	i	i
	moist	0.0-0.0-0.3	3.3-5.7-6.7		İ	į	İ	İ
	wet	3.3-5.7-6.7	6.7-6.7-6.7		İ	į	İ	İ
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none	i	none		i
	moist	0.0-0.0-0.5	4.9-6.7-6.7		ĺ	ĺ	ĺ	ĺ
	wet	4.9-6.7-6.7	6.7-6.7-6.7		ĺ	ĺ	ĺ	ĺ
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	3.6-4.9-6.7					
	wet	3.6-4.9-6.7	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none		
	wet	3.0-4.3-5.7	6.7-6.7-6.7			[		
November	moist	0.0-0.0-0.0	2.3-3.3-4.9	none		none		
			6.7-6.7-6.7			[		
December	moist	0.0-0.0-0.0	3.3-4.6-5.7	none		none		
	wet	3.3-4.6-5.7	6.7-6.7-6.7					

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I73A (continued)

Newfolden (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H			 	 	L - R - H 
January	moist		4.1-5.4-6.7	none		none		
February	wet     moist		6.7-6.7-6.7   4.9-5.9-6.7					
rebruary			4.9-5.9-6.7   6.7-6.7-6.7	none		none		
March			8.7-6.7-6.7   3.3-4.9-6.7	none	l 	l none	l I	 
Mar CII			3.3-4.9-6.7   6.7-6.7-6.7	none	<del></del>	Hone		 
April			0.7-0.7-0.7   1.6-2.5-4.1	none		l none	l I	l I
APITI			1.0-2.3-4.1   6.7-6.7-6.7	none	 	l Hone	 	 
May	wet     moist		2.1-2.8-4.9	none	 	l none	l 	 
· · · ·			6.7-6.7-6.7	110110		110110	! 	i
June			2.6-3.1-5.7	none		l none	i	i
0 4110			6.7-6.7-6.7				i I	İ
July			0.0-0.0-0.3	none		l none	i	i
•	moist		3.3-5.7-6.7			İ	i	i
	wet	3.3-5.7-6.7	6.7-6.7-6.7		İ	i	İ	i
August	dry	0.0-0.0-0.0	0.0-0.0-0.5	none		none	i	j
	moist	0.0-0.0-0.5	4.9-6.7-6.7			İ	İ	İ
	wet	4.9-6.7-6.7	6.7-6.7-6.7		İ	İ	İ	İ
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		i
	moist	0.0-0.0-0.3	3.6-4.9-6.7			ĺ	ĺ	ĺ
	wet	3.6-4.9-6.7	6.7-6.7-6.7			1		
October	moist	0.0-0.0-0.0	3.0-4.3-5.7	none		none		
	wet	3.0-4.3-5.7	6.7-6.7-6.7			[		
November	moist	0.0-0.0-0.0	2.3-3.3-4.9	none		none		
	wet	2.3-3.3-4.9	6.7-6.7-6.7			[		
December	moist	0.0-0.0-0.0	3.3-4.6-5.7	none		none		
	wet	3.3-4.6-5.7	6.7-6.7-6.7			I	1	1

174A Urban land-Endoaquents complex, 0 to 3 percent slopes

Urban land (65 percent of the map unit) (not applicable)

Endoaquents (35 percent of the map unit) (not applicable)

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I75A Radium-Sandberg-Garborg complex, 0 to 3 percent slopes

Radium (40 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H 	L - R - H   		 	 	 	L - R - H 
January	   moist	    0.0-0.0-0.0	 	none	i I	none	j I	i I
	wet		6.7-6.7-6.7		İ	İ	i	İ
February	moist	0.0-0.0-0.0	5.7-6.2-6.7	none	i	none	i	i
	wet	5.7-6.2-6.7	6.7-6.7-6.7		İ	İ	İ	İ
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none	j	
	wet	3.3-4.1-6.7	6.7-6.7-6.7			1		
April	moist	0.0-0.0-0.0	2.1-3.0-4.9	none		none		
	wet	2.1-3.0-4.9	6.7-6.7-6.7			[		l
May   	moist	0.0-0.0-0.0	2.6-3.8-5.7	none		none		
	wet	2.6-3.8-5.7	6.7-6.7-6.7					
June	dry		0.0-0.0-0.3			none		
	moist		3.3-4.4-6.7					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7			none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0		!	none	!	
	moist		6.7-6.7-6.7		!	!	!	
September		•	0.0-0.0-0.7			none	!	
	moist		4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7			none		
	wet		6.7-6.7-6.7					l
November	moist		2.5-4.1-5.7			none		
December	wet		6.7-6.7-6.7		 		1	l I
Jecember	moist		4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7 	6.7-6.7-6.7  		 	[ [	[ [	 
	I ————	l —————	I ————————————————————————————————————		l ———————		I ————	l ————

Sandberg (20 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H		[			L - R - H
January			6.7-6.7-6.7	none		none		
February			6.7-6.7-6.7	none		none		
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
May	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7		[			
September	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7					
October	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
November	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		
December	moist	0.0-0.0-0.0	6.7-6.7-6.7	none		none		

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I75A (continued)

Garborg (15 percent of the map unit)

Month	Moisture   status	Top depth	Bottom   depth	Flooding frequency	Flooding duration	Ponding   frequency	Ponding   duration	Ponding depth
	status   	depth   L - R - H	depth     L - R - H   	rrequency	duration	rrequency	duration	depth   L - R - H
January	moist	    0.0-0.0-0.0	    2.6-3.3-5.9	none		none	   	   
2	wet		6.7-6.7-6.7				i	i
February	moist		3.3-4.1-6.7	none		none	i	i
	wet	3.3-4.1-6.7	6.7-6.7-6.7		İ	İ	į	İ
March	moist	0.0-0.0-0.0	2.6-3.3-5.7	none		none	j	j
	wet	2.6-3.3-5.7	6.7-6.7-6.7			İ	ĺ	ĺ
April	moist	0.0-0.0-0.0	1.1-1.5-3.3	none		none		
			6.7-6.7-6.7					
May	moist		1.5-1.8-4.1	none		none		
			6.7-6.7-6.7					
June	dry		0.0-0.0-0.3	none		none	ļ	ļ
	moist		2.0-2.5-4.9			ļ	!	!
_	wet		6.7-6.7-6.7			ļ	!	!
July	dry		0.0-0.0-0.5	none		none		
	moist		2.6-4.9-6.2			!		
	wet		6.7-6.7-6.7					!
August	dry moist		0.0-0.0-0.7   6.7-6.7-6.7	none		none		
September			0.7-6.7-6.7   0.0-0.0-0.3	none		l none	l i	l i
september	ary   moist		0.0-0.0-0.3   2.6-4.9-6.7	none		none		
	wet		2.0-4.9-6.7   6.7-6.7-6.7			1		<u> </u>
October	moist		2.3-3.0-5.7	none	 	l none	! !	! !
oc cobc <sub>1</sub>	wet		6.7-6.7-6.7	110110		110110	i i	i
November	moist		2.0-2.5-4.9	none		none	i	i
	wet		6.7-6.7-6.7				i	i
December	moist		2.3-3.0-5.2	none		none	i	i
	wet		6.7-6.7-6.7		İ		i	i
					•			

Oylen (10 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L-R-H		 	 	 	L - R - H 
January	moist	0.0-0.0-0.0	  4.9-5.4-6.7	none	j 	none	j I	j I
	wet	4.9-5.4-6.7	6.7-6.7-6.7		j	İ	j	į
February	moist	0.0-0.0-0.0	5.7-6.2-6.7	none		none		
	wet	5.7-6.2-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist		2.1-3.0-4.9	none		none		
	wet		6.7-6.7-6.7					
May	moist		2.6-3.8-5.7	none		none		
			6.7-6.7-6.7					
June			0.0-0.0-0.3	none		none		
	moist		3.3-4.4-6.7					
	wet		6.7-6.7-6.7					
July	dry		0.0-0.0-0.7	none		none		
	moist		6.7-6.7-6.7					
August	dry		0.0-0.0-1.0	none		none		
	moist		6.7-6.7-6.7					
September	dry		0.0-0.0-0.7	none		none		
			4.1-4.9-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.3-4.6-6.7	none		none		ļ
	wet		6.7-6.7-6.7					
November	moist		2.5-4.1-5.7	none	ļ	none	ļ	!
	wet		6.7-6.7-6.7			[		
December	moist		4.1-4.9-6.7	none	ļ	none	ļ	!
į	wet	4.1-4.9-6.7	6.7-6.7-6.7		l			

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I75A (continued)

Flaming (5 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	!	L-R-H	L - R - H		ļ	ļ.		L - R - H
January	moist	0.0-0.0-0.0	4.6-5.4-6.7	none	i	none	i	
	wet		6.7-6.7-6.7			[		
February	moist		5.2-6.2-6.7			none		
	wet	5.2-6.2-6.7	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	3.3-4.1-6.7	none		none		
	wet	3.3-4.1-6.7	6.7-6.7-6.7					
April	moist		2.1-2.5-6.7			none		
	wet	2.1-2.5-6.7	6.7-6.7-6.7					
May	moist		2.5-2.8-5.7			none		
	wet	2.5-2.8-5.7	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	2.6-3.3-6.7					
	wet	2.6-3.3-6.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
August	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
	moist	0.0-0.0-1.0	6.7-6.7-6.7			[		
September	dry	0.0-0.0-0.0	0.0-0.0-0.3	none		none		
	moist	0.0-0.0-0.3	4.1-4.9-6.7			[		
	wet	4.1-4.9-6.7	6.7-6.7-6.7			[		
October	moist	0.0-0.0-0.0	3.3-4.6-6.7	none		none		
	wet	3.3-4.6-6.7	6.7-6.7-6.7			[		
November	moist	0.0-0.0-0.0	2.5-4.1-5.7	none		none		
	wet	2.5-4.1-5.7	6.7-6.7-6.7			[		
December	moist	0.0-0.0-0.0	4.1-4.9-6.7	none		none		
	wet	4.1-4.9-6.7	6.7-6.7-6.7			1		
							l	

Karlsruhe (3 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	ĺ	L-R-H	L - R - H			İ	İ	L-R-H
January	moist		2.6-3.3-6.2	none		none	ļ	
_	wet		6.7-6.7-6.7		!	ļ	!	
February	moist	0.0-0.0-0.0		none	ļ	none	!	ļ
	wet		6.7-6.7-6.7		!	!	!	
March	moist		2.6-3.3-5.9	none	ļ	none	!	
	wet		6.7-6.7-6.7		!	ļ	!	
April	moist		1.5-2.0-3.3	none	ļ	none	!	
	wet	1.5-2.0-3.3				ļ	!	
May	moist	0.0-0.0-0.0		none	ļ	none	!	
	wet	1.8-2.5-4.1			!	!	!	
June	moist		2.5-3.0-4.9	none		none	ļ	
	wet	2.5-3.0-4.9						
July	dry	0.0-0.0-0.0		none		none	ļ	
	moist		3.0-3.6-6.7					
	wet	3.0-3.6-6.7						
August	dry	0.0-0.0-0.0		none		none		
	moist	0.0-0.0-0.5						
	wet	4.1-6.7-6.7						
September		0.0-0.0-0.0		none		none		
	moist		2.6-4.1-6.7					
	wet		6.7-6.7-6.7					
October	moist		3.0-4.3-5.7	none		none		
	wet		6.7-6.7-6.7					
November	moist	0.0-0.0-0.0		none		none		
	wet	2.0-2.5-4.9						
December	moist		2.3-3.0-5.6	none		none		
	wet	2.3-3.0-5.6	6.7-6.7-6.7					
	I				I			

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I75A (continued)

Venlo (3 percent of the map unit)

Month	  Moisture	   Top	Bottom	   Flooding	Flooding	   Ponding	   Ponding	   Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L-R-H	L-R-H					L-R-H
	i			 		i	i	
	i					İ	İ	
January	moist	0.0-0.0-0.0	0.8-1.6-3.0	none		occasional	long	0.0-0.5-1.0
	wet	0.8-1.6-3.0	6.7-6.7-6.7			ĺ	ĺ	
February	moist	0.0-0.0-0.0	2.0-3.0-3.6	none		occasional	long	0.0-0.5-1.0
	wet	2.0-3.0-3.6	6.7-6.7-6.7					
March	moist	0.0-0.0-0.0	0.0-0.5-2.0	none		occasional	long	0.0-0.5-1.0
	wet	0.0-0.5-2.0	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.0-1.0	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.0-1.0	6.7-6.7-6.7					
May	moist	0.0-0.0-0.0	0.0-0.5-2.0	none		frequent	long	0.0-0.5-1.0
	wet	0.0-0.5-2.0	6.7-6.7-6.7					
June	moist	0.0-0.0-0.0	0.3-1.3-2.6	none		occasional	brief	0.0-0.5-1.0
	wet	0.3-1.3-2.6	6.7-6.7-6.7					
July	moist	0.0-0.0-0.0	1.0-2.1-3.3	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7	•				
August	moist	0.0-0.0-0.0	2.0-3.0-3.8	none		rare	very brief	0.0-0.3-0.5
			6.7-6.7-6.7					
September			1.0-2.1-3.3			rare	brief	0.0-0.3-0.5
			6.7-6.7-6.7	•				
October			0.7-1.6-2.6	•		occasional	brief	0.0-0.3-0.5
	wet	0.7-1.6-2.6	6.7-6.7-6.7					
November			0.3-1.3-2.0	•		occasional	long	0.0-0.5-1.0
			6.7-6.7-6.7					
December	moist		0.7-1.6-2.5			occasional	long	0.0-0.5-1.0
	wet	0.7-1.6-2.5	6.7-6.7-6.7					
	l					l	l	

Hangaard (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
	 	L - R - H	L - R - H   		 	İ	İ I	L - R - H 
January	moist	0.0-0.0-0.0		none	 	none		i i
-	wet	2.0-3.0-4.9	6.7-6.7-6.7		İ	İ	i	i
February	moist	0.0-0.0-0.0	2.5-3.3-5.7	none	j	none	j	j
	wet	2.5-3.3-5.7	6.7-6.7-6.7		ĺ	İ	İ	ĺ
March	moist	0.0-0.0-0.0	1.6-2.5-4.1	none		none		
	wet	1.6-2.5-4.1	6.7-6.7-6.7					
April	moist	0.0-0.0-0.0	0.0-0.3-2.5	none		occasional	very brief	0.0-0.3-0.
	wet		6.7-6.7-6.7					
lay	moist		0.5-0.8-3.3	none		rare	very brief	0.0-0.3-0.
			6.7-6.7-6.7					
June	moist		1.0-1.6-2.5	none	!	rare	very brief	0.0-0.1-0.
			6.7-6.7-6.7				!	!
July	moist		1.6-2.5-4.9	none		none		
			6.7-6.7-6.7			ļ		
August	moist		2.5-3.3-5.7	none		none		ļ
	wet   moist		6.7-6.7-6.7   1.3-2.5-4.9		 			
September			1.3-2.5-4.9   6.7-6.7-6.7	none		none		
October	wet   moist		1.0-2.1-4.1	none	l 	none		l I
occoper			6.7-6.7-6.7	none	 	l none		 
ovember	moist	•	0.7-0.7-0.7   0.8-1.6-3.3	none	 	none		! !
IO V CIMDO I	wet		6.7-6.7-6.7	110110	! I	l none	1	i
ecember	moist		11.6-2.1-4.1	none		l none	i	
	wet		6.7-6.7-6.7		i		i	İ
	50	<b></b>			İ	i	i	i
	1		ı ——— I		1 ————————	1	1	. ————

Table 26.--Soil Moisture, Ponding, and Flooding--Continued

I75A (continued)

Sioux (2 percent of the map unit)

Month	Moisture	Top	Bottom	Flooding	Flooding	Ponding	Ponding	Ponding
	status	depth	depth	frequency	duration	frequency	duration	depth
		L - R - H	L - R - H				I	L - R - H
			ļ		ļ	ļ	ļ	ļ
January	moist	  0.0-0.0-0.0	  6.7-6.7-6.7	none	 	l none	 	 
February			6.7-6.7-6.7	none	i	none	i	i
March	moist	0.0-0.0-0.0	6.7-6.7-6.7	none	i	none	i	i
April	moist	0.0-0.0-0.0	6.7-6.7-6.7	none	i	none	j	i
May	dry	0.0-0.0-0.0	0.0-0.0-0.2	none		none	j	i
	moist	0.0-0.0-0.2	6.7-6.7-6.7					
June	dry	0.0-0.0-0.0	0.0-0.0-0.7	none		none		
	moist	0.0-0.0-0.7	6.7-6.7-6.7					
July	dry	0.0-0.0-0.0	0.0-0.0-1.0	none		none		
			6.7-6.7-6.7					
August			0.0-0.0-1.1	none		none		
			6.7-6.7-6.7					
September			0.0-0.0-1.0	none		none		
			6.7-6.7-6.7					
October			0.0-0.0-0.3	none		none		ļ
			6.7-6.7-6.7					
November			6.7-6.7-6.7	none		none		ļ
December			6.7-6.7-6.7	none		none		ļ
	moist	0.0-0.0-0.0	6.7-6.7-6.7					

\*

#### M-W Miscellaneous water

Miscellaneous water (100 percent of the map unit) (not applicable)

### W Water

Water (100 percent of the map unit) (not applicable)

Table 27.--Soil Features

(See text for definitions of terms used in this table. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

Map symbol and	Pct. of	Subsidence		   Potential	Risk of corrosion	
component name	map unit		Total	for frost action	Uncoated steel	   Concrete
		In	In		Steel	
				į į	İ	į
B109A: Bowstring	   45	   0-12	12-45	  High	  High 	  Low
Fluvaquents	   40 	   		  High 	  High 	  Low 
Hapludalfs	5	 		  High 	  Moderate 	  Low 
Seelyeville	5	2-12 	12-50	High 	  High 	  Moderate 
Water	5	 		i i	i I	i I
B200A:						
Garnes	70 	 	 	High 	Moderate 	Low 
Chilgren	13	 		High	High	Low
Eckvoll	5	 	 	Moderate	  Moderate 	Low
Garnes, very stony	5			High	Moderate	Low
Grygla	   4 	     		  High 	  High 	  Low 
Pelan	3			  Moderate	  Moderate 	  Low 
B201A:					 	! 
Chilgren	75			High	High	Low
Garnes	   9	 		  High	  Moderate	Low
Grygla	5   5	     		  High 	  High 	  Low 
Grygla, depressional	5   5	 		  High 	  High 	  Low 
Hamre	5	   2-8 	2-12	  High 	  High 	Low
Pelan	1	 		Moderate	  Moderate 	Low
B202A:						į.
Cathro	80 	2-12 	12-45	High 	High 	Low 
Hamre	8	2-8	2-12	High	High	Low
Chilgren	   3 	     	 	  High 	  High 	  Low 
Northwood	   3 	   2-8   	2-12	  High 	  High 	  Low 
Berner	2   2	2-12	12-45	  High 	  High 	  Moderate 
Grygla	2	 		High	  High 	Low
Seelyeville	   2 	   2-12   	12-50	  High 	  High 	  Moderate 
B203A: Northwood	     75	     2-8	     2=12	    High	    High	    Low
	İ	2-0	ĺ	i		
Hamre	į	2-8 	2-12	High 	High 	Low 
Grygla	7			High	High	Low

Table 27.--Soil Features--Continued

		Subsid	dence		Risk of corrosion		
Map symbol and component name	Pct. of map unit	l	 I	Potential   for	Uncoated		
			Total	frost action	:	Concrete	
		In	In	ļ.	!	ļ	
B203A:	 	 	 	 	 	 	
Berner	5 	2-12 	12-45 	High 	High 	Moderate	
Chilgren	   3 	i i	 	  High 	  High 	Low	
B204A: Roliss	   75	 	   	    High	    High	Low	
Grygla	İ	   	İ	į	    High	Low	
	İ		İ	į	į	į	
Chilgren	İ	 	 	High 	High 	Low	
Garnes	5 	 	 	High 	Moderate	Low	
Roliss, depressional	5 	 	 	High	High	Low	
Hamre	   2 	2-8 	   2-12 	  High 	  High 	Low	
B205A:		İ		İ	İ	İ	
Berner	80 	2-12 	12-45 	High 	High 	Moderate	
Northwood	7   7	2-8	2-12 	High	High 	Low	
Grygla	5   5			  High 	  High 	Low	
Cathro	   3	2-12	   12-45 	  High	  High 	Low	
Hamre	   3	2-8	   2-12	  High	  High	Low	
Seelyeville	   2	2-12	   12-50	  High	  High	  Moderate	
B206A:	l İ	 	 	 	 	 	
Hamre	80   80	2-8 	2-12	High	High	Low	
Chilgren	   8			  High 	  High 	Low	
Northwood	   5	   2-8 	   2-12 	  High	  High 	Low	
Cathro	   3	2-12	   12-45	  High	  High	Low	
Grygla	   2	 	 	  High	  High	Low	
Roliss	   2	 	 	  High	  High 	  Low	
B207A:	 	 	 	] 	 	 	
Pelan	70	 	   	Moderate	Moderate	Low	
Chilgren	10   10			  High 	  High 	Low	
Garnes	   10			  High	  Moderate 	Low	
Eckvoll	   5		 	  Moderate	  Moderate	Low	
Grygla	   5 	     	   	  High 	  High 	  Low 	
B208A:	   		   		 	 	
Grygla	75 	 	 	High 	High 	Low 	
Chilgren	10 	 	 	High	  High 	Low	
Eckvoll	5   5	i i	 	  Moderate 	  Moderate 	Low	

Table 27.--Soil Features--Continued

		Subsid	lence		Risk of corrosion		
Map symbol and	Pct. of	İ		Potential	İ	1	
component name	map unit 		Total	for  frost action	Uncoated steel	Concrete	
		In	In				
B208A: Grygla, depressional	5	   		    High	    High	    Low	
Northwood	5	   2-8   	2-12	  High 	  High 	  Low 	
B209A: Seelyeville	90	     2-12	12-50	    High	    High	    Moderate	
Cathro	3	2-12	12-45	  High	  High	Low	
Dora	3	   2-12   	12-45	  High 	  High 	  Moderate 	
Markey	3	   2-12   	12-45	  High 	  High 	  Low 	
Berner	1	   2-12 	12-45	  High 	'  High 	  Moderate 	
B210A: Eckvoll	70	 		  Moderate	  Moderate	  Low	
Chilgren	12			  High	  High 	Low	
Grygla	   8 	 		  High 	  High 	  Low 	
Garnes	7	 		  High 	  Moderate 	  Low 	
Pelan	3	 		  Moderate 	  Moderate 	Low	
B211A: Berner, ponded	45	   2-12	12-45	  High	    High 	  Low	
Cathro, ponded	45	2-12	12-45	  High	  High 	Low	
Chilgren	2	 		  High 	  High 	  Low 	
Grygla	2			  High 	  High 	Low	
Hamre	2	   2-8 	2-12	  High 	  High 	  Low 	
Northwood	2	   2-8 	2-12	  High 	  High 	Low	
Seelyeville, ponded	2	   2-12   	12-50	  High 	  High 	  Moderate 	
I1A: Augsburg	75	 	 	  High	    High 	    Low	
Borup	10			  High 	  High 	Low	
Foxlake	5	 		  High 	  High 	Low	
Augsburg, depressional	3			  High 	  High 	Low	
Wheatville	3	 		  High 	  High 	Low	
Glyndon	2	 		  High 	'  High 	Low	
Espelie	1	i		  High 	High 	Low	
Hattie	1	 		  Moderate 	  High 	Low	
I3A: Berner	80	   2-12	12-45	    High	    High 	    Moderate 	
Northwood	7	   2-8 	2-12	  High 	  High 	  Low 	

Table 27.--Soil Features--Continued

	<u> </u>	Subsid	dence	Risk of corrosion		
Map symbol and component name	Pct. of map unit	:	 I	Potential   for	Uncoated	 I
Component name	map unic	  Initial	   Total	frost action		Concrete
		In	In	ļ.	ļ	l
I3A:	 	 	 	 	 	 
Kratka	,   5 		   	  High 	  High 	Low
Hamre	   3 	2-8 	   2-12 	  High 	  High 	Low 
Strathcona	   3 			  High 	  High 	  Low 
Seelyeville	2   2	2-12	   12-50 	  High 	  High 	  Moderate 
I4A:	İ	İ	İ	İ	İ	İ
Berner	30 	2-12 	12-45 	High 	High 	Moderate 
Rosewood, depressional	30 	 	 	High 	  High 	Low
Strathcona, depressional	   30	 	 	  High	  High	Low
Rosewood	   4 	 	 	  Moderate	  High 	  Low 
Deerwood	   2 	   2-8 	   2-12 	  High 	  High 	  Low 
Mavie	   2 	 	   	  High 	  High 	  Low 
Strathcona	   2 	 	   	  High 	  High 	  Low 
I5A:	<u></u>		į	<u>.</u>		
Borup	İ	 	 	High 	High 	Low 
Glyndon	9 	 	 	High 	High 	Low 
Rosewood	8 	 	 	Moderate	High 	Low
Augsburg	5 	 	 	High 	High 	Low 
Augsburg, depressional	3 	 	 	High	  High 	Low
I7A: Bowstring	   45	0-12	     12-45	    High	    High	Low
Fluvaquents	İ		İ	į	    High	Low
	İ		ĺ	į		
Hapludolls	İ	 	 	Moderate 	Moderate 	Low 
Water	5 	 	 	 	 	 
I8A: Cathro	80	2-12	   12-45	  High	  High	Low
Hamre	   8	2-8	   2-12	  High	  High	Low
Northwood	   3	2-8	   2-12	  High	  High	Low
Roliss	   3	 	 	  High	  High	Low
Berner	   2	   2-12	   12-45	  High	  High 	  Moderate
Kratka	   2	 	 	  High 	  High 	  Low 
Seelyeville	   2 	   2-12   	   12-50 	  High 	  High 	  Moderate 
	-	- '		•		•

Table 27.--Soil Features--Continued

Markey		Subsid	lence		Risk of corrosion		
	Map symbol and component name	Pct. of map unit		 	Potential   for	   Uncoated	 I
Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution				Total	!		Concrete
Clearwater, very cobbly   5			In	In	!		ļ
Clearwater, very cobbly   5	T9A:		 		 	 	 
Reis		80			  High 	  High 	  Low 
Clearwater, depressional	Clearwater, very cobbly	5			  High 	  High 	  Low 
depressional         3          High         High         Low           Espelie         3          High         High         Low           Foxlake         2          High         High         Low           Hattie         1          Moderate         High         Low           Huot         1          Moderate         High         Low           Deerwood         85         2-8         2-12         High         High         Low           Rosewood         6           Moderate         High         Low           Markey         3         2-12         12-45         High         High         Low           Syrene         2           Moderate         High         Low           Venlo         2           Moderate         High         Low           Venlo         2           Moderate         Moderate         Low           Venlo         7           Moderate         Moderate         Low           Smiley         7	Reis	5			  High 	  High 	  Low 
Foxlake		3			    High 	  High	  Low
Hattie	Espelie	3			  High 	  High 	  Low 
Huot	Foxlake	2			  High 	  High 	  Low 
Note	Hattie	1			  Moderate 	  High 	  Low 
Deerwood	Huot	1			  Moderate 	  High 	  Low 
Rosewood	I11A:				İ	İ	İ
Markey	Deerwood	85	2-8	2-12	High 	High 	Low 
Strathcona	Rosewood	6	 	 	Moderate	High 	Low 
Syrene	Markey	3	2-12	12-45	High 	High 	Low
Venlo	Strathcona	2			  High 	  High 	Low
	Syrene	2	 		  Moderate 	High 	Low
Eckvoll	Venlo	2			  Moderate 	  High 	Low
Kratka	I12A:				İ		İ
Smiley	Eckvoll	70	 	 	Moderate	Moderate 	Low
Linveldt	Kratka	8			  High 	High	Low
Reiner	Smiley	7			  High 	  High 	Low
Foldahl	Linveldt	5			  Moderate 	  Moderate 	Low
Pelan	Reiner	5			  Moderate 	  Moderate 	Low
Poppleton	Foldahl	2			  Moderate 	  Moderate 	  Low 
	Pelan	2			  Moderate 	  Moderate 	  Low 
Espelie	Poppleton	1			Low	  Low 	  Low 
Foxlake	I13A:				i	İ	İ
Hilaire 7	Espelie	75	 	 	High 	High 	Low 
Clearwater,	Foxlake	8			High 	High 	Low
depressional	Hilaire	7			  Moderate 	  Moderate 	Low
	Clearwater,				i	İ	İ
Thiefriver 5       High   High   Low	depressional	5	 	 	High 	High 	Low 
	Thiefriver	5	 	i	  High 	  High 	Low

Table 27.--Soil Features--Continued

Map symbol and	Pct. of	Subsidence		   Potential	Risk of corrosion		
component name	map unit	į		for	Uncoated	<u> </u>	
	l	Initial   In	Total   In	frost action	steel	Concrete	
	! 			İ	i I	İ	
I15A: Flaming	   70	 	 	Low	Low	Low	
Garborg	   10 	 	   	  Moderate 	  High 	  Low 	
Hamar	5   5	i	 	  Moderate 	  High 	Low	
Ulen	,   5 		 	Moderate	Low	Low	
Poppleton	   3			Low	Low	Low	
Sandberg	   3 		 	Low	  Moderate 	  Low 	
Foldahl	   2 	 	 	  Moderate	  Moderate 	  Low 	
Radium	   2 	 	 	  Low	  Moderate 	  Low	
116F:	 	 	 	 	 	 	
Fluvaquents	55 	 	 	High 	High 	Low	
Hapludolls	25   25	i	 	Moderate	  Moderate 	Low	
Hapludalfs	7   7	i	 	  High 	  Moderate 	Low	
Fairdale	,   5 	i i	   	Moderate	  Moderate 	Low	
Water	   5 	 		ļ	 	 	
Bowstring	   2 	   0-12   	   12-45 	  High 	  High 	  Low 	
Rauville	   1	 	 	  High 	  High 	Low	
I17A:		į				<u> </u>	
Foldahl	İ	 	 	Moderate 	Moderate 	Low	
Kratka	İ	 	 	High 	High 	Low 	
Roliss	5 	 	 	High 	High 	Low 	
Flaming	4 	 	 	Low	Low	Low	
Grimstad	2   2	i i	   	High	  Moderate 	Low	
Linveldt	2 	i i	i i	Moderate	  Moderate 	Low	
Eckvoll	1 1	i i	   	Moderate	  Moderate 	Low	
Strathcona	   1 	 		  High 	  High 	Low	
I18A: Foldahl	     75	   	 	    Moderate	    Moderate	Low	
Kratka	   10	 	 	  High	  High	Low	
Roliss	   5	 	 	  High	  High	  Low	
Flaming	   4	 	 	  Low	  Low	  Low	
Grimstad	   2	 	 	  High	  Moderate	  Low	
Linveldt	   2	 	 	  Moderate	  Moderate	  Low	
		I İ	l	I	l	l	

Table 27.--Soil Features--Continued

Map symbol and	Pct. of	Subsid	dence	   Potential	Risk of	corrosion
component name	map unit	  Initial	   Total	for  frost action	Uncoated steel	Concrete
	<u> </u>	In	In			
I18A:	 	 	 		 	 
Eckvoll	1	i		Moderate	Moderate	Low
Strathcona	   1 	   	   	  High 	  High 	  Low 
I19A:		İ	İ	İ	İ	
Foxhome	65 	 	 	Moderate	Moderate	Low 
Kittson	10	i I	i I	Moderate	High	Low
Strandquist	10   10	i	i	High	High 	Low
Foldahl	   5 	 	 	Moderate	  Moderate 	  Low 
Grimstad	   5	 		  High	  Moderate 	  Low 
Roliss	   3	 	 	  High	  High	  Low
Mavie	   2	 	 	  High	  High	  Low
I20A:	 	 	 		 	 
Foxlake	75 	 	 	High 	High 	Low 
Clearwater	,   5 	i	   	  High 	  High 	Low
Foxlake, very cobbly	   5 	 		  High 	  High 	  Low 
Augsburg	   3 	 	 	  High 	  High 	  Low 
Clearwater, depressional	   	   	   	 	    uiab	 
	İ	 	 	İ	High   	Low 
Espelie	İ	 		İ	High 	Low 
Hilaire	2 	 	 	Moderate	Moderate 	Low 
Reis	2   2	 	 	High	  High 	Low
Wheatville	2 	i i	i	High	High 	Low
I22A: Glyndon	     75	   	   	    High	    High	    Low
	į				į	İ
Borup	10 	 	 	High 	High 	Low 
Augsburg	5   5	 	 	High	  High 	Low
Ulen	5 	i	i	Moderate	Low	Low
Wheatville	   3 	 		  High 	  High 	  Low 
Flaming	   2 	 	 	Low	  Low 	  Low 
I24A:						! 
Grimstad	70 	 	 	High 	Moderate 	Low 
Strathcona	12 	 	 	High 	High 	Low
Foldahl	5 	j I	   	Moderate	  Moderate 	Low
Hamerly	   5 	   	   	  High 	  High 	  Low 
	'		'	1	1	1

Table 27.--Soil Features--Continued

		Subsid	dence	Risk of corrosion			
Map symbol and	Pct. of	ļ		Potential			
component name	map unit 		   Total	for  frost action	Uncoated steel	   Concrete	
		In	In	I		 	
I24A:		l I	  -		 		
Foxhome	2	   	   	  Moderate 	  Moderate 	  Low 	
Karlsruhe	2	 	   	  Moderate 	  High 	  Low 	
Mavie	2	   	   	  High 	  High 	  Low 	
Ulen	2	 	 	  Moderate 	Low	Low	
I25A: Hamar	75	 	 	  Moderate	  High	  Low	
Garborg	10	 	   	  Moderate 	  High 	  Low 	
Rosewood	7	 	 	Moderate	  High 	Low	
Venlo	3	   	   	  Moderate 	  High 	  Low 	
Flaming	2	 	 	Low	Low	Low	
Hangaard	2	 	 	  Moderate 	  High 	Low	
Kratka	1	i I	   	  High 	  High 	Low	
I26A: Hamerly	75	   	 	  High 	    ніgh 	    Low 	
Vallers	12	 	 	  High 	  High 	Low	
Foxhome	3	 	 	Moderate	  Moderate 	Low	
Grimstad	3	 	 	  High 	  Moderate 	Low	
Hamerly, very cobbly	3	 	 	  High 	  High 	Low	
Strathcona	3	i	i	  High 	  High 	Low	
Roliss, depressional	1	   	i I	High	High 	Low	
127A: Hamre	80	2-8	     2-12	    High	    High	Low	
Northwood	5	2-8	   2-12	  High	  High	Low	
Roliss	5	 	 	  High	  High	Low	
Smiley	5	 	 	  High	  High	  Low	
Cathro	   3	   2-12	   12-45	  High	  High	  Low	
Kratka	2	 	 	  High	  High	  Low	
I32A:		 	 	 	 	 	
Hilaire	75 	 	 	Moderate	Moderate 	Low 	
Espelie	12	 	 	High 	  High 	Low	
Huot	5	 	 	Moderate 	High 	Low 	
Flaming	2	 	 	Low 	Low 	Low 	
Foxlake	2	 	 	High 	High 	Low 	

Table 27.--Soil Features--Continued

Man numbel and		Subsid	dence		Risk of corrosion	
	Pct. of map unit			Potential   for	Uncoated	     Gangmata
	<u> </u>	Initial   In	I In	frost action	steel	Concrete
I32A:			  -		 	
Wheatville	   2 	   	 	  High 	  High 	  Low 
Thiefriver	1	 	   	  High 	  High 	Low
Wyandotte	1	   	   	  High 	  High 	Low
I34A: Huot	75	 	 	  Moderate	  High	Low
Thiefriver	   12	 	 	  High	  High 	  Low
Hilaire	   5 	   	   	  Moderate 	  Moderate 	  Low 
Flaming	   3 	   	   	  Low 	  Low 	  Low 
Foxlake	   3 	   	   	  High 	  High 	Low
Ulen	   2 	   	   	Moderate	  Low 	Low
I36A: Kittson	70	 	 	  Moderate	  High	Low
Roliss	   12	 	 	  High	  High 	  Low
Hamerly	   5	 	 	  High	  High 	  Low
Kratka	   5 	 	 	  High	  High 	  Low 
Grimstad	   3 	   	 	  High 	  Moderate 	  Low 
Strandquist	   3 	   	 	  High 	  High 	  Low 
Foxhome	   2 	 	   	  Moderate 	  Moderate 	  Low 
I38A: Kratka	70	   	   	    High	    High	    Low
Smiley	   7	 	 	  High	  High 	  Low
Foldahl	   5	 	 	  Moderate	  Moderate	  Low
Kratka, very cobbly	   5 	   	   	  High 	  High 	  Low 
Strathcona	   5 	   	   	  High 	  High 	  Low 
Kratka, depressional	   3 	   	   	  High 	  High 	  Low 
Strandquist	   3 	   	   	  High 	  High 	Low 
Linveldt	   2 	   	   	  Moderate 	  Moderate 	  Low 
I39A: Linveldt	     65	   	   	    Moderate	    Moderate 	    Low 
Kratka	   14 	   	   	  High 	  High 	  Low 
Reiner	   10 	   	   	  Moderate 	  Moderate 	  Low 
Smiley	   5 	   	   	  High 	  High 	  Low 
Eckvoll	   3 	   	   	  Moderate 	  Moderate 	  Low 
	'					

Table 27.--Soil Features--Continued

		Subsid	dence	Risk of corrosion		
Map symbol and component name	Pct. of map unit			Potential   for	Uncoated	 I
component name	map unit		   Total	frost action		   Concrete
		In	In	Ī	l	l
I39A:			l i	[	 	
Foldahl	2	   	   	  Moderate 	  Moderate 	  Low 
Pelan	1	 	   	  Moderate 	  Moderate 	  Low 
I41A: Markey	80	2-12	12-45	  High	  High	Low
Deerwood	12	   2-8 	   2-12 	  High 	  High 	  Low 
Berner	2	   2-12   	   12-45 	  High 	  High 	  Moderate 
Hamar	2	     	   	  Moderate 	  High 	  Low 
Seelyeville	2	2-12	   12-50 	  High 	  High 	  Moderate 
Syrene	2	 	   	Moderate	High 	Low
I42A:	0.5			 		 
Markey, ponded	85 	2-12   	12-45 	High	High 	Low 
Markey	5	2-12	   12-45 	  High 	  High 	Low
Deerwood	4	2-8	2-12	High	High	Low
Seelyeville, ponded	   4 	   2-12   	   12-50 	  High 	  High 	  Moderate 
Hamar	1	 	   	  Moderate 	  High 	  Low 
Hangaard	1	 	   	Moderate	High	Low
I43A:	==					
Mavie	70 	 	 	High 	High 	Low 
Vallers	10	 	i I	High 	  High 	Low
Strandquist	7			High	High	Low
Strathcona	5	     	   	  High 	  High 	  Low 
Strathcona,			İ	İ	 	İ
depressional	3		 	High	High 	Low
Foxhome	2	     	   	  Moderate 	  Moderate 	  Low 
Karlsruhe	2			Moderate	High	Low
Grimstad	1	 	 	  High 	  Moderate 	  Low 
I44A:	 		 		 	! 
Newfolden	75	 	i i	Moderate	  Moderate 	Low
Smiley	12	 	   	High 	High	Low
Boash	8	 	   	  High 	  High 	  Low 
Linveldt	4			Moderate	Moderate	Low
Hapludolls	1	 	   	  Moderate 	  Moderate 	  Low 
· · · · · · · · · · · · · · · · · · ·						

Table 27.--Soil Features--Continued

Subsidence   Risk of corrosion						
Map symbol and	Pct. of			   Potential	Risk of corrosion	
component name	map unit			for	Uncoated	
		Initial   In	Total   In	frost action	steel 	Concrete
				İ	İ	İ
I45A: Northwood	75	2-8	   2-12	  High	  High	  Low
Hamre	   10 	   2-8 	   2-12 	  High 	  High 	  Low 
Berner	5	   2-12   	   12-45 	  High 	  High 	  Moderate 
Kratka	5	i i I	 	High 	High	Low
Strandquist	3	i i	 	High	High	Low
Roliss	2	i i I	 	High 	High	Low
I46A: Pits	85 	     	 	   	   	   
Udipsamments	10	 		Low	Low	Low
Radium	2	 		Low	  Moderate 	  Low 
Maddock	1	 		Low	Low	Low
Marquette	1	 		Low	  Low 	  Low 
Sandberg	1	 		Low	  Moderate 	  Low 
I47A: Poppleton	75	   	 	    Low	    Low	    Low
Flaming	12			Low	  Low 	  Low 
Garborg	   5	 	   	  Moderate 	  High 	  Low 
Hamar	3	 	 	  Moderate 	  High 	  Low 
Radium	   2	 	 	  Low 	  Moderate 	  Low 
Ulen	   2	 	 	  Moderate 	  Low 	  Low 
Maddock	1	 	   	  Low 	  Low 	  Low 
I48A: Radium	75	   	   	    Low	    Moderate	    Low
Sandberg	7	 	 	Low	  Moderate	  Low
Oylen	5	 	 	  Moderate	  Moderate	  Low
Flaming	   4 	 	 	  Low	  Low 	  Low 
Garborg	3	 	 	  Moderate	  High 	  Low
Hangaard	3	 	 	  Moderate	  High 	  Low 
Hamar	   2	 	   	  Moderate 	  High 	  Low 
Poppleton	1	 	   	  Low 	  Low 	  Low 
I50A: Reiner	     70	   	   	    Moderate 	    Moderate 	    Low 
Smiley	12	   	   	  High 	  High 	  Low 

Table 27.--Soil Features--Continued

Map symbol and	Pct. of	Subsid	lence	   Potential	Risk of	corrosion
component name	map unit	: :	Total	for frost action	Uncoated steel	   Concret
		In	In			İ
I50A: Reiner, very cobbly	7	 		    Moderate	    Moderate	    Low
Linveldt	5	 		  Moderate	  Moderate 	Low
Eckvoll	3	 		  Moderate	  Moderate	Low
Kratka	3	     	 	  High 	  High 	  Low 
I51A:   Reiner	65	i I I		Moderate	Wodowska	
				į	Moderate 	Low
Smiley	9	 		High 	High 	Low 
Reiner fine sandy loam	8	 		Moderate	Moderate 	Low
Linveldt	7	i i		Moderate	  Moderate	Low
Kratka	5			  High	  High 	Low
Eckvoll	3	 		  Moderate	  Moderate 	  Low
Reiner, very cobbly	3	     		  Moderate 	  Moderate 	  Low 
I52A:					   	
Reis	55	 		High 	High 	Low
Clearwater	30	 	 	High 	High 	Low
Clearwater, very cobbly	5	 		High	  High 	Low
Clearwater, depressional	3	 		  High	  High	Low
Espelie	3	 		  High	  High	Low
Hattie	3	 		  Moderate	  High	Low
Wyandotte	1	 		  High	  High	Low
I53A:     Roliss	75	 	   	    High	    High	    Low
Kratka	8	j 		  High	    High	Low
Roliss, very cobbly		j j		İ		Low
		į į		į		į
Kittson		į į		į		Low
Roliss, depressional	3	 	 	High 	High 	Low 
Smiley	2	 	 	High 	High 	Low
I54A: Roliss, depressional	80	 	 	  High	  High	Low
Roliss	12	 	 	  High 	  High 	Low
Hamre	5	   2-8   	2-12	  High 	  High 	Low
Kratka	3	 	 	  High	  High	  Low

Table 27.--Soil Features--Continued

	Subsidence		<u> </u>	Risk of corrosion		
Map symbol and component name	Pct. of map unit		 [	Potential   for	Uncoated	<u> </u>
		Initial In	Total In	frost action	steel	Concrete
I55A:			 	į i	 	  -
Rosewood	75			Moderate	  High 	Low
Ulen	10	     	   	  Moderate 	  Low 	  Low 
Hamar	6		 	  Moderate	  High 	  Low 
Rosewood, depressional	3			  High	  High 	  Low 
Syrene	3		 	  Moderate	  High 	  Low 
Karlsruhe	1		 	  Moderate	  High 	  Low
Strathcona	1		 	  High	  High 	  Low
Thiefriver	1		 	  High	  High 	  Low
I57B: Sandberg	     50	   	   	    Low	    Moderate	    Low
Radium	25	 	 	Low	  Moderate	Low
Sioux	8	i 	 	Low	    Low	    Low
Oylen	7	 	 	  Moderate	  Moderate	Low
Flaming	5	 	 	  Low	  Low	  Low
Garborg	5	 	 	  Moderate	  High	Low
I58A:		 	 	 	 	 
Seelyeville	90	2-12 	12-50 	High 	High 	Moderate
Cathro	3	2-12 	12-45 	High 	High 	Low 
Dora	3	2-12	12-45	High 	High 	  Moderate 
Markey	3	2-12	12-45	  High 	'  High 	Low
Berner	1	2-12	   12-45 	  High 	  High 	  Moderate 
I59A: Smiley	65	 	   	    High	    High	    Low
Smiley, very cobbly	10	 	 	  High	  High	  Low
Kratka	9	 	 	  High	  High	  Low
Roliss	5	 	 	  High	  High	  Low
Reiner	4	 	 	  Moderate	  Moderate	  Low
Linveldt	3	 	 	  Moderate	  Moderate	Low
Smiley, depressional	3	 	 	  High	  High	Low
Strandquist	1		 	  High	  High 	  Low
I60A: Smiley, depressional	80	   	   	    High	    High	    Low
Smiley	10	 	 	  High	  High	Low
	l i	l i		I	l	l

Table 27.--Soil Features--Continued

Map symbol and	Pct. of	Subsid	ience	   Potential	Risk of 	corrosion
component name	map unit	    Initial	   Total	for frost action	Uncoated steel	   Concrete
		In	In			
   I60A:		 		 	 	 
Hamre	5	2-8 	2-12	High 	High 	Low
Kratka	5	 		  High 	  High 	Low
I61A:	<b>50</b>	İ		 	 	
Strandquist	70	 		High 	High 	Low
Mavie	8	 		High 	High 	Low
Roliss	7	 		High	  High 	Low
Kratka	5			  High 	  High 	Low
Foxhome	4			  Moderate	  Moderate 	Low
Hangaard	3			  Moderate	  High	Low
Northwood	3	2-8	2-12	  High	  High	Low
   I62A:		 		 	 	 
Syrene	70	 		Moderate	High 	Low 
Rosewood	11	 		Moderate	High	Low
Hangaard	5			Moderate	  High 	Low
Karlsruhe	4			  Moderate	  High	Low
Deerwood	3	2-8	2-12	  High	  High	Low
Hamar	3	 		  Moderate	  High	Low
Strandquist	2			  High	  High	Low
Radium	1	 		Low	  Moderate	Low
Wyandotte	1	 		  High	  High	Low
   I63A:		 		 		 
Thiefriver	70	 		High 	  High 	Low
Espelie	10			  High	  High 	Low
Foxlake	7			  High	  High	Low
Huot	5	 		  Moderate	  High	Low
Clearwater,	 	 		 	 	[ [
depressional	3	 		High 	High 	Low
Rosewood	3			Moderate	High	Low
Ulen	1			  Moderate	  Low 	Low
Wyandotte	1	 	 	  High 	  High 	  Low
I64A:		 		!		! !
Ulen	70	 		Moderate	Low 	Low
Rosewood	10			Moderate	High	Low

Table 27.--Soil Features--Continued

Map symbol and	Pct. of	Subsidence		   Potential	Risk of corrosion	
component name	map unit			for	Uncoated	
	<u></u>	Initial		frost action	steel	Concrete
	 	In   	In	 		 
I64A:				į		
Flaming	8 	 		Low 	Low	Low 
Karlsruhe	5   5	 		Moderate	High	  Low 
Radium	3   3	i i		Low	Moderate	Low
Strathcona	2   2	i i		High	High	Low
Thiefriver	2   2	i i		  High 	High	Low
I65A:		i i		İ		İ
Ulen	70 			Moderate	Low	Low
Rosewood	   10 	 		  Moderate 	  High 	  Low 
Flaming	   6 	 		Low	Low	  Low 
Poppleton	   4 	 		Low	Low	  Low 
Karlsruhe	   3 	 		Moderate	  High	  Low 
Radium	   3 	 		Low	Moderate	  Low 
Strathcona	2   2	 		  High 	  High	Low
Thiefriver	2	 		  High 	  High	  Low 
I66A:		i i		İ		İ
Vallers	75 			High	High 	Low
Vallers, very cobbly	   7 	 		  High 	  High 	  Low 
Hamerly	   6 	 		  High 	  High 	  Low 
Grimstad	   3 	 		  High 	Moderate	  Low 
Mavie	   3 	 		  High 	  High	  Low 
Roliss, depressional	   3 	 		  High 	  High	Low
Strathcona	   3 	 		  High 	  High	Low
I67A:		į i		į .		į
Wheatville	70 	 		High 	High 	Low
Augsburg	   13 	 		  High 	  High 	  Low 
Glyndon	   8 	 		  High 	  High	  Low 
Foxlake	   5 	 		  High 	  High 	  Low 
Hilaire	   2 	     		  Moderate 	  Moderate 	  Low 
Ulen	   2 	 		  Moderate 	  Low 	  Low 
I69A:	! 	 			 	! 
Wyandotte	65	i i I		High 	High	Low
Foxlake	10 	i i		High 	High	Low
Espelie	   8 	i		  High 	  High	Low

Table 27.--Soil Features--Continued

	<u> </u>	Subsidence		 I	Risk of corrosion	
Map symbol and	Pct. of	<u> </u>		Potential	İ	
component name	map unit 	!	   Total	for  frost action	Uncoated   steel	   Concrete
		In	In			
I69A:	 					
Clearwater,	 	l İ		 	 	 
depressional	5	j		High	High	Low
Thiefriver	   5	 		  High	  High	Low
Karlsruhe	   4	 		  Moderate	  High 	Low
Syrene	   3 	 		  Moderate 	  High 	  Low 
I70A:	 	l İ		 	 	 
Strathcona	70	j		High	High 	Low
Kratka	   10 	 		  High 	  High 	  Low 
Roliss	6			  High	  High 	Low
Grimstad	   5			  High	  Moderate	Low
Mavie	   3	 		  High	  High 	Low
Rosewood	   3	 		  Moderate	  High 	Low
Strathcona, depressional	     3	   		    High 	    High 	    Low
I71A:	 	 		 	! 	 
Berner, ponded	45	2-12	12-45	High	High	Low
Cathro, ponded	   45 	   2-12 	12-45	  High 	  High 	  Low 
Hamre	   2 	   2-8 	2-12	  High 	  High 	  Low 
Kratka	   2 	 		  High 	  High 	Low
Northwood	   2 	   2-8	2-12	  High 	  High 	  Low
Roliss	   2 	 		  High 	  High 	  Low 
Seelyeville, ponded	   2 	   2-12 	12-50	  High 	  High 	  Moderate 
I72A:	 	! 		İ	! 	
Pelan	65 	 		Moderate	Moderate	Low
Smiley	   10 	 		  High 	  High 	  Low 
Linveldt	   8 	 		  Moderate 	  Moderate 	  Low 
Kratka	   5	 		  High 	  High 	Low
Strandquist	   5 	 		  High 	  High 	  Low 
Reiner	   4	 		  Moderate	  Moderate	  Low
Eckvoll	   3 	 		  Moderate 	  Moderate 	  Low 
I73A:	 	! 	 	 	 	 
Boash	75			  High 	  High 	Low
Clearwater	   8 	 		  High 	  High 	  Low 
Roliss	   8 	 		  High 	  High 	  Low 
	I	I	ı	I	I	I

Table 27.--Soil Features--Continued

Map symbol and	Pct. of	Subsidence		   Potential	Risk of corrosion	
component name	map unit			for	Uncoated	1
	İ	Initial	Total	frost action	steel	Concrete
		In	In			
I73A:				! 	 	 
Clearwater,						
depressional	5			High 	High 	Low
Kittson	2			  Moderate 	  High 	  Low 
Newfolden	2			  Moderate 	  Moderate 	  Low 
174A:				i	 	i I
Urban land	65			j		i
Endoaquents	35			 	 	 
I75A:				 	 	 
Radium	40			Low	Moderate	Low
Sandberg	20			  Low	  Moderate	  Low
Garborg	15			  Moderate 	  High 	  Low 
Oylen	10			  Moderate 	  Moderate 	  Low 
Flaming	5			Low	  Low 	  Low 
Karlsruhe	3			  Moderate 	  High 	  Low 
Venlo	3			  Moderate 	  High 	  Low 
Hangaard	2			  Moderate 	  High 	  Low 
Sioux	2			  Low	  Low	  Low
M-W.				<u> </u>		 
Miscellaneous water				 	 	 
W. Water				   	   	   

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# **Glossary**

- **Ablation till.** Loose, permeable till deposited during the final downwasting of glacial ice. Lenses of crudely sorted sand and gravel are common.
- Aeration, soil. The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.
- **Aggregate, soil.** Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.
- **Alluvium.** Material, such as sand, silt, or clay, deposited on land by streams.
- Alpha,alpha-dipyridyl. A dye that when dissolved in 1N ammonium acetate is used to detect the presence of reduced iron (Fe II) in the soil. A positive reaction indicates a type of redoximorphic feature.
- Animal unit month (AUM). The amount of forage required by one mature cow of approximately 1,000 pounds weight, with or without a calf, for 1 month.
- **Aquic conditions.** Current soil wetness characterized by saturation, reduction, and redoximorphic features.
- **Argillic horizon.** A subsoil horizon characterized by an accumulation of illuvial clay.
- Aspect. The direction in which a slope faces.

  Available water capacity (available moisture capacity). The capacity of soils to hold water available for use by most plants. It is commonly defined as the difference between the amount of soil water at field moisture capacity and the amount at wilting point. It is commonly expressed as inches of water per inch of soil. The capacity, in inches, in a 60-inch profile or to a limiting layer is expressed as:

Very low	0 to 3
Low	3 to 6
Moderate	6 to 9
High	9 to 12
Very high	more than 12

**Backslope.** The position that forms the steepest and generally linear, middle portion of a hillslope. In

- profile, backslopes are commonly bounded by a convex shoulder above and a concave footslope below.
- Basal till. Compact glacial till deposited beneath the
- **Base saturation.** The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, and K), expressed as a percentage of the total cation-exchange capacity.
- Base slope. A geomorphic component of hills consisting of the concave to linear (perpendicular to the contour) slope that, regardless of the lateral shape, forms an apron or wedge at the bottom of a hillside dominated by colluvium and slope-wash sediments (for example, slope alluvium).
- **Beach deposits.** Material, such as sand and gravel, that is generally laid down parallel to an active or relict shoreline of a postglacial or glacial lake.
- **Bedding planes.** Fine strata, less than 5 millimeters thick, in unconsolidated alluvial, eolian, lacustrine, or marine sediment.
- **Bedrock.** The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.
- **Bedrock-controlled topography.** A landscape where the configuration and relief of the landforms are determined or strongly influenced by the underlying bedrock.
- **Bench terrace.** A raised, level or nearly level strip of earth constructed on or nearly on a contour, supported by a barrier of rocks or similar material, and designed to make the soil suitable for tillage and to prevent accelerated erosion.
- **Bisequum.** Two sequences of soil horizons, each of which consists of an illuvial horizon and the overlying eluvial horizons.
- **Blowout.** A shallow depression from which all or most of the soil material has been removed by the wind. A blowout has a flat or irregular floor formed by a resistant layer or by an accumulation of pebbles or cobbles. In some blowouts the water table is exposed.
- **Bog.** Waterlogged, spongy ground, consisting primarily of mosses, containing acidic, decaying

- vegetation (such as sphagnum, sedges, and heaths) that develops into peat.
- **Boulders.** Rock fragments larger than 2 feet (60 centimeters) in diameter.
- Brush management. Use of mechanical, chemical, or biological methods to make conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.
- **Calcareous soil.** A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.
- **Canopy.** The leafy crown of trees or shrubs. (See Crown.)
- **Capillary water.** Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.
- **Catena.** A sequence, or "chain," of soils on a landscape that formed in similar kinds of parent material but have different characteristics as a result of differences in relief and drainage.
- **Cation.** An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.
- Cation-exchange capacity. The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.
- **Catsteps.** Very small, irregular terraces on steep hillsides, especially in pasture, formed by the trampling of cattle or the slippage of saturated soil.
- Channery soil material. Soil material that has, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a channer.
- **Chemical treatment.** Control of unwanted vegetation through the use of chemicals.
- **Chiseling.** Tillage with an implement having one or more soil-penetrating points that shatter or loosen hard, compacted layers to a depth below normal plow depth.
- **Clay.** As a soil separate, the mineral soil particles less than 0.002 millimeter in diameter. As a soil textural class, soil material that is 40 percent or more clay,

- less than 45 percent sand, and less than 40 percent silt.
- Clay depletions. Low-chroma zones having a low content of iron, manganese, and clay because of the chemical reduction of iron and manganese and the removal of iron, manganese, and clay. A type of redoximorphic depletion.
- **Clay film.** A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.
- Climax plant community. The stabilized plant community on a particular site. The plant cover reproduces itself and does not change so long as the environment remains the same.
- Coarse textured soil. Sand or loamy sand.

  Cobble (or cobblestone). A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.
- Cobbly soil material. Material that has 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material has 35 to 60 percent of these rock fragments, and extremely cobbly soil material has more than 60 percent.
- **COLE (coefficient of linear extensibility).** See Linear extensibility.
- **Colluvium.** Soil material or rock fragments, or both, moved by creep, slide, or local wash and deposited at the base of steep slopes.
- **Complex slope.** Irregular or variable slope. Planning or establishing terraces, diversions, and other water-control structures on a complex slope is difficult.
- Complex, soil. A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.
- Concretions. Cemented bodies with crude internal symmetry organized around a point, a line, or a plane. They typically take the form of concentric layers visible to the naked eye. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up concretions. If formed in place, concretions of iron oxide or manganese oxide are generally considered a type of redoximorphic concentration.
- **Conservation cropping system.** Growing crops in combination with needed cultural and management practices. In a good conservation

- cropping system, the soil-improving crops and practices more than offset the effects of the soil-depleting crops and practices. Cropping systems are needed on all tilled soils. Soil-improving practices in a conservation cropping system include the use of rotations that contain grasses and legumes and the return of crop residue to the soil. Other practices include the use of green manure crops of grasses and legumes, proper tillage, adequate fertilization, and weed and pest control.
- **Conservation tillage.** A tillage system that does not invert the soil and that leaves a protective amount of crop residue on the surface throughout the year.
- Consistence, soil. Refers to the degree of cohesion and adhesion of soil material and its resistance to deformation when ruptured. Consistence includes resistance of soil material to rupture and to penetration; plasticity, toughness, and stickiness of puddled soil material; and the manner in which the soil material behaves when subject to compression. Terms describing consistence are defined in the "Soil Survey Manual."
- **Contour stripcropping.** Growing crops in strips that follow the contour. Strips of grass or close-growing crops are alternated with strips of clean-tilled crops or summer fallow.
- **Control section.** The part of the soil on which classification is based. The thickness varies among different kinds of soil, but for many it is that part of the soil profile between depths of 10 inches and 40 or 80 inches.
- **Coprogenous earth (sedimentary peat).** Fecal material deposited in water by aquatic organisms.
- **Corrosion.** Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.
- **Cover crop.** A close-growing crop grown primarily to improve and protect the soil between periods of regular crop production, or a crop grown between trees and vines in orchards and vineyards.
- **Crop residue management.** Returning crop residue to the soil, which helps to maintain soil structure, organic matter content, and fertility and helps to control erosion.
- **Cropping system.** Growing crops according to a planned system of rotation and management practices.
- **Cross-slope farming.** Deliberately conducting farming operations on sloping farmland in such a way that tillage is across the general slope.
- **Crown.** The upper part of a tree or shrub, including the living branches and their foliage.

- **Cutbanks cave** (in tables). The walls of excavations tend to cave in or slough.
- **Decreasers.** The most heavily grazed climax range plants. Because they are the most palatable, they are the first to be destroyed by overgrazing.
- **Deferred grazing.** Postponing grazing or resting grazing land for a prescribed period.
- **Delta.** A body of alluvium having a surface that is nearly flat and fan shaped; deposited at or near the mouth of a river or stream where it enters a body of relatively quiet water, generally a sea or lake.
- **Depression.** Any relatively sunken part of the earth's surface; especially a low-lying area surrounded by higher ground. A closed depression has no natural outlet for surface drainage.
- **Depth, soil.** Generally, the thickness of the soil over bedrock. Very deep soils are more than 60 inches deep over bedrock; deep soils, 40 to 60 inches; moderately deep, 20 to 40 inches; shallow, 10 to 20 inches; and very shallow, less than 10 inches.
- Disintegration moraine. A drift topography characterized by chaotic mounds and pits, generally randomly oriented, developed in supraglacial drift by collapse and flow as the underlying stagnant ice melted. Slopes may be steep and unstable. Abrupt changes between materials of differing lithology are common.
- **Diversion (or diversion terrace).** A ridge of earth, generally a terrace, built to protect downslope areas by diverting runoff from its natural course.
- Drainage class (natural). Refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized—excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."
- **Drainage, surface.** Runoff, or surface flow of water, from an area.
- **Drainageway.** A relatively small, linear depression that, at some time, moves concentrated water and either does not have a defined channel or has only a small defined channel.
- **Drumlin.** A low, smooth, elongated oval hill, mound, or ridge of compact glacial till. The longer axis is parallel to the path of the glacier and commonly

- has a blunt nose pointing in the direction from which the ice approached.
- **Duff.** A generally firm organic layer on the surface of mineral soils. It consists of fallen plant material that is in the process of decomposition and includes everything from the litter on the surface to underlying pure humus.
- **Eluviation.** The movement of material in true solution or colloidal suspension from one place to another within the soil. Soil horizons that have lost material through eluviation are eluvial; those that have received material are illuvial.
- **End moraine.** A ridgelike accumulation that is being or was produced at the outer margin of an actively flowing glacier at any given time.
- **Endosaturation.** A type of saturation of the soil in which all horizons between the upper boundary of saturation and a depth of 2 meters are saturated.
- **Eolian soil material.** Earthy parent material accumulated through wind action; commonly refers to sandy material in dunes or to loess in blankets on the surface.
- **Ephemeral stream.** A stream, or reach of a stream, that flows only in direct response to precipitation. It receives no long-continued supply from melting snow or other source, and its channel is above the water table at all times.
- **Episaturation.** A type of saturation indicating a perched water table in a soil in which saturated layers are underlain by one or more unsaturated layers within 2 meters of the surface.
- Erosion. The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep.

  Erosion (geologic). Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.
  - Erosion (accelerated). Erosion much more rapid than geologic erosion, mainly as a result of human or animal activities or of a catastrophe in nature, such as a fire, that exposes the surface.
- **Erosion pavement.** A layer of gravel or stones that remains on the surface after fine particles are removed by sheet or rill erosion.
- **Escarpment.** A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Synonym: scarp.
- **Esker.** A narrow, winding ridge of stratified gravelly and sandy drift deposited by a stream flowing in a tunnel beneath a glacier.

- **Fan terrace.** A relict alluvial fan, no longer a site of active deposition, incised by younger and lower alluvial surfaces.
- **Fertility, soil.** The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.
- Fibric soil material (peat). The least decomposed of all organic soil material. Peat contains a large amount of well preserved fiber that is readily identifiable according to botanical origin. Peat has the lowest bulk density and the highest water content at saturation of all organic soil material.
- Field moisture capacity. The moisture content of a soil, expressed as a percentage of the ovendry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called normal field capacity, normal moisture capacity, or capillary capacity.
- Fine textured soil. Sandy clay, silty clay, or clay.

  Firebreak. An area cleared of flammable material to stop or help control creeping or running fires. It also serves as a line from which to work and to facilitate the movement of firefighters and equipment. Designated roads also serve as firebreaks.
- **First bottom.** The normal flood plain of a stream, subject to frequent or occasional flooding.
- Flaggy soil material. Material that has, by volume, 15 to 35 percent flagstones. Very flaggy soil material has 35 to 60 percent flagstones, and extremely flaggy soil material has more than 60 percent flagstones.
- **Flagstone.** A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.
- **Flood plain.** A nearly level alluvial plain that borders a stream and is subject to flooding unless protected artificially.
- **Footslope.** The position that forms the inner, gently inclined surface at the base of a hillslope. In profile, footslopes are commonly concave. A footslope is a transition zone between upslope sites of erosion and transport (shoulders and backslopes) and downslope sites of deposition (toeslopes).
- **Forb.** Any herbaceous plant not a grass or a sedge. **Forest cover.** All trees and other woody plants (underbrush) covering the ground in a forest.
- **Forest type.** A stand of trees similar in composition and development because of given physical and

- biological factors by which it may be differentiated from other stands.
- Fragipan. A loamy, brittle subsurface horizon low in porosity and content of organic matter and low or moderate in clay but high in silt or very fine sand. A fragipan appears cemented and restricts roots. When dry, it is hard or very hard and has a higher bulk density than the horizon or horizons above. When moist, it tends to rupture suddenly under pressure rather than to deform slowly.
- **Frost action** (in tables). Freezing and thawing of soil moisture. Frost action can damage roads, buildings and other structures, and plant roots.
- **Genesis, soil.** The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.
- Geomorphology. The science that treats the general configuration of the earth's surface; specifically, the study of the classification, description, nature, origin, and development of landforms and their relationships to underlying structures, and the history of geologic changes as recorded by these surface features. The term is especially applied to the genetic interpretation of landforms.
- **Glacial drift.** Pulverized and other rock material transported by glacial ice and then deposited. Also, the sorted and unsorted material deposited by streams flowing from glaciers.
- **Glacial outwash.** Gravel, sand, and silt, commonly stratified, deposited by glacial meltwater.
- **Glacial till.** Unsorted, nonstratified glacial drift consisting of clay, silt, sand, and boulders transported and deposited by glacial ice.
- **Glaciofluvial deposits.** Material moved by glaciers and subsequently sorted and deposited by streams flowing from the melting ice. The deposits are stratified and occur as kames, eskers, deltas, and outwash plains.
- **Glaciolacustrine deposits.** Material ranging from fine clay to sand derived from glaciers and deposited in glacial lakes mainly by glacial meltwater. Many deposits are interbedded or laminated.
- **Gleyed soil.** Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.
- **Graded stripcropping.** Growing crops in strips that grade toward a protected waterway.
- **Grassed waterway.** A natural or constructed waterway, typically broad and shallow, seeded to grass as protection against erosion. Conducts surface water away from cropland.
- **Gravel.** Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6

- centimeters) in diameter. An individual piece is a pebble.
- Gravelly soil material. Material that has 15 to 35 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.
- **Green manure crop** (agronomy). A soil-improving crop grown to be plowed under in an early stage of maturity or soon after maturity.
- **Ground water.** Water filling all the unblocked pores of the material below the water table.
- **Gully.** A miniature valley with steep sides cut by running water and through which water ordinarily runs only after rainfall. The distinction between a gully and a rill is one of depth. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage; a rill is of lesser depth and can be smoothed over by ordinary tillage.
- **Hard bedrock.** Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.
- Hard to reclaim (in tables). Reclamation is difficult after the removal of soil for construction and other uses. Revegetation and erosion control are extremely difficult.
- **Head slope.** A geomorphic component of hills consisting of a laterally concave area of a hillside, especially at the head of a drainageway. The overland waterflow is converging.
- Hemic soil material (mucky peat). Organic soil material intermediate in degree of decomposition between the less decomposed fibric material and the more decomposed sapric material.
- Herbaceous peat. An accumulation of organic material, decomposed to some degree, that is predominantly the remains of sedges, reeds, cattails, and other herbaceous plants.
- **High-chroma zones.** Zones having chroma of 3 or more. Typical color in areas of iron concentrations.
- High-residue crops. Such crops as small grain and corn used for grain. If properly managed, residue from these crops can be used to control erosion until the next crop in the rotation is established. These crops return large amounts of organic matter to the soil.
- **Hill.** A natural elevation of the land surface, rising as much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline; hillsides generally have slopes of more than 15 percent. The distinction between a hill and a mountain is arbitrary and is dependent on local usage.
- Horizon, soil. A layer of soil, approximately parallel to

the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. An explanation of the subdivisions is given in the "Soil Survey Manual." The major horizons of mineral soil are as follows:

*O horizon.*—An organic layer of fresh and decaying plant residue.

A horizon.—The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.

*E horizon.*—The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.

B horizon.—The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.

C horizon.—The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.

*Cr horizon.*—Soft, consolidated bedrock beneath the soil.

R layer.—Consolidated bedrock beneath the soil. The bedrock commonly underlies a C horizon, but it can be directly below an A or a B horizon.

**Humus.** The well decomposed, more or less stable part of the organic matter in mineral soils.

Hydrologic soil groups. Refers to soils grouped according to their runoff potential. The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties are depth to a seasonal high water table, the infiltration rate and permeability after prolonged wetting, and depth to a very slowly permeable layer. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.

Ice-walled lake plain. A relict surface marking the floor of an extinct lake basin that was formed on solid ground and surrounded by stagnant ice in a stable or unstable superglacial environment on stagnation moraines. As the ice melted, the lake plain became perched above the adjacent landscape. The lake plain is well sorted, generally fine textured, stratified deposits.

**Igneous rock.** Rock formed by solidification from a molten or partially molten state. Major varieties include plutonic and volcanic rock. Examples are andesite, basalt, and granite.

**Illuviation.** The movement of soil material from one horizon to another in the soil profile. Generally, material is removed from an upper horizon and deposited in a lower horizon.

**Impervious soil.** A soil through which water, air, or roots penetrate slowly or not at all. No soil is absolutely impervious to air and water all the time.

Increasers. Species in the climax vegetation that increase in amount as the more desirable plants are reduced by close grazing. Increasers commonly are the shorter plants and the less palatable to livestock.

**Infiltration.** The downward entry of water into the immediate surface of soil or other material, as contrasted with percolation, which is movement of water through soil layers or material.

**Infiltration capacity.** The maximum rate at which water can infiltrate into a soil under a given set of conditions.

Infiltration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.

Intake rate. The average rate of water entering the soil under irrigation. Most soils have a fast initial rate; the rate decreases with application time. Therefore, intake rate for design purposes is not a constant but is a variable depending on the net irrigation application. The rate of water intake, in inches per hour, is expressed as follows:

very low	Less than 0.2.
low	0.2 to 0.4
moderately low	0.4 to 0.75
moderate	0.75 to 1.25
moderately high	1.25 to 1.75
high	1.75 to 2.5
very high	More than 2.5.

**Interfluve.** An elevated area between two drainageways that sheds water to those drainageways.

- Intermittent stream. A stream, or reach of a stream, that flows for prolonged periods only when it receives ground-water discharge or long, continued contributions from melting snow or other surface and shallow subsurface sources.
- **Invaders.** On range, plants that encroach into an area and grow after the climax vegetation has been reduced by grazing. Generally, plants invade following disturbance of the surface.
- Iron concentrations. High-chroma zones having a high content of iron and manganese oxide because of chemical oxidation and accumulation, but having a clay content similar to that of the adjacent matrix. A type of redoximorphic concentration.
- **Iron depletions.** Low-chroma zones having a low content of iron and manganese oxide because of chemical reduction and removal, but having a clay content similar to that of the adjacent matrix. A type of redoximorphic depletion.
- Irrigation. Application of water to soils to assist in production of crops. Methods of irrigation are: Basin.—Water is applied rapidly to nearly level plains surrounded by levees or dikes.

  Border.—Water is applied at the upper end of a strip in which the lateral flow of water is controlled by small earth ridges called border dikes, or borders.

Controlled flooding.—Water is released at intervals from closely spaced field ditches and distributed uniformly over the field.

Corrugation.—Water is applied to small, closely spaced furrows or ditches in fields of closegrowing crops or in orchards so that it flows in only one direction.

*Drip (or trickle).*—Water is applied slowly and under low pressure to the surface of the soil or into the soil through such applicators as emitters, porous tubing, or perforated pipe.

Furrow.—Water is applied in small ditches made by cultivation implements. Furrows are used for tree and row crops.

Sprinkler.—Water is sprayed over the soil surface through pipes or nozzles from a pressure system. Subirrigation.—Water is applied in open ditches or tile lines until the water table is raised enough to wet the soil.

Wild flooding.—Water, released at high points, is allowed to flow onto an area without controlled distribution.

- **Kame.** An irregular, short ridge or hill of stratified glacial drift.
- **Kame moraine.** An end moraine that contains numerous kames. A group of kames along the

- front of a stagnant glacier, commonly comprising the slumped remnants of a formerly continuous outwash plain built up over the foot of rapidly wasting or stagnant ice.
- **Karst** (topography). The relief of an area underlain by limestone that dissolves in differing degrees, thus forming numerous depressions or small basins.
- **Knoll.** A small, low, rounded hill rising above adjacent landforms.
- K<sub>sat</sub>. Saturated hydraulic conductivity. (See Permeability.)
- **Lacustrine deposit.** Material deposited in lake water and exposed when the water level is lowered or the elevation of the land is raised.
- Lake bed. The bottom of a lake; a lake basin.
- **Lake plain.** A nearly level surface marking the floor of an extinct lake filled by well sorted, generally fine textured, stratified deposits, commonly containing varyes.
- **Lake terrace.** A narrow shelf, partly cut and partly built, produced along a lakeshore in front of a scarp line of low cliffs and later exposed when the water level falls.
- **Lakeshore.** A narrow strip of land in contact with or bordering a lake; especially the beach of a lake.
- Lamella. A thin (commonly less than 1 cm thick), discontinuous or continuous, generally horizontal layer of fine material (especially clay and iron oxides) that has been pedogenically concentrated (illuviated within a coarser textured eluviated layer several centimeters to several decimeters thick).
- **Landslide.** The rapid downhill movement of a mass of soil and loose rock, generally when wet or saturated. The speed and distance of movement, as well as the amount of soil and rock material, vary greatly.
- **Leaching.** The removal of soluble material from soil or other material by percolating water.
- Linear extensibility. Refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. Linear extensibility is used to determine the shrink-swell potential of soils. It is an expression of the volume change between the water content of the clod at <sup>1</sup>/<sub>3</sub>- or <sup>1</sup>/<sub>10</sub>-bar tension (33kPa or 10kPa tension) and oven dryness. Volume change is influenced by the amount and type of clay minerals in the soil. The volume change is the percent change for the whole soil. If it is expressed as a fraction, the resulting value is COLE, coefficient of linear extensibility.
- **Liquid limit.** The moisture content at which the soil passes from a plastic to a liquid state.
- Loam. Soil material that is 7 to 27 percent clay

- particles, 28 to 50 percent silt particles, and less than 52 percent sand particles.
- **Loess.** Fine grained material, dominantly of silt-sized particles, deposited by wind.
- **Low strength.** The soil is not strong enough to support loads.
- **Low-chroma zones.** Zones having chroma of 2 or less. Typical color in areas of iron depletions.
- Low-residue crops. Such crops as corn used for silage, peas, beans, and potatoes. Residue from these crops is not adequate to control erosion until the next crop in the rotation is established. These crops return little organic matter to the soil.
- **Marl.** An earthy, unconsolidated deposit consisting chiefly of calcium carbonate mixed with clay in approximately equal amounts.
- Masses. Concentrations of substances in the soil matrix that do not have a clearly defined boundary with the surrounding soil material and cannot be removed as a discrete unit. Common compounds making up masses are calcium carbonate, gypsum or other soluble salts, iron oxide, and manganese oxide. Masses consisting of iron oxide or manganese oxide generally are considered a type of redoximorphic concentration.
- **Mechanical treatment.** Use of mechanical equipment for seeding, brush management, and other management practices.
- **Medium textured soil.** Very fine sandy loam, loam, silt loam, or silt.
- **Metamorphic rock.** Rock of any origin altered in mineralogical composition, chemical composition, or structure by heat, pressure, and movement. Nearly all such rocks are crystalline.
- **Mineral soil.** Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.
- **Minimum tillage.** Only the tillage essential to crop production and prevention of soil damage.
- **Miscellaneous area.** An area that has little or no natural soil and supports little or no vegetation.
- **Moderately coarse textured soil.** Coarse sandy loam, sandy loam, or fine sandy loam.
- **Moderately fine textured soil.** Clay loam, sandy clay loam, or silty clay loam.
- **Mollic epipedon.** A thick, dark, humus-rich surface horizon (or horizons) that has high base saturation and pedogenic soil structure. It may include the upper part of the subsoil.
- **Moraine.** An accumulation of earth, stones, and other debris deposited by a glacier. Some types are terminal, lateral, medial, and ground.

- Morphology, soil. The physical makeup of the soil, including the texture, structure, porosity, consistence, color, and other physical, mineral, and biological properties of the various horizons, and the thickness and arrangement of those horizons in the soil profile.
- Mottling, soil. Irregular spots of different colors that vary in number and size. Descriptive terms are as follows: abundance—few, common, and many; size—fine, medium, and coarse; and contrast—faint, distinct, and prominent. The size measurements are of the diameter along the greatest dimension. Fine indicates less than 5 millimeters (about 0.2 inch); medium, from 5 to 15 millimeters (about 0.2 to 0.6 inch); and coarse, more than 15 millimeters (about 0.6 inch).
- **Muck.** Dark, finely divided, well decomposed organic soil material. (See Sapric soil material.)
- **Mucky peat.** Unconsolidated soil material consisting primarily of organic matter that is in an intermediate stage of decomposition such that a significant part of the material can be recognized and a significant part of the material cannot be recognized.
- **Mudstone.** Sedimentary rock formed by induration of silt and clay in approximately equal amounts.
- **Munsell notation.** A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4
- **Neutral soil.** A soil having a pH value of 6.6 to 7.3. (See Reaction, soil.)
- Nodules. Cemented bodies lacking visible internal structure. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up nodules. If formed in place, nodules of iron oxide or manganese oxide are considered types of redoximorphic concentrations.
- **Nose slope.** A geomorphic component of hills consisting of the projecting end (laterally convex area) of a hillside. The overland waterflow is predominantly divergent.
- Nutrient, plant. Any element taken in by a plant essential to its growth. Plant nutrients are mainly nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, copper, boron, and zinc obtained from the soil and carbon, hydrogen, and oxygen obtained from the air and water.
- **Organic matter.** Plant and animal residue in the soil in various stages of decomposition. The content of

organic matter in the surface layer is described as follows:

Very low	less than 0.5 percent
Low	0.5 to 1.0 percent
Moderately low	1.0 to 2.0 percent
Moderate	2.0 to 4.0 percent
High	4.0 to 8.0 percent
Very high	more than 8.0 percent

- Outwash plain. A landform of mainly sandy or coarse textured material of glaciofluvial origin. An outwash plain is commonly smooth; where pitted, it generally is low in relief.
- **Parent material.** The unconsolidated organic and mineral material in which soil forms.
- **Peat.** Unconsolidated material, largely undecomposed organic matter, that has accumulated under excess moisture. (See Fibric soil material.)
- **Ped.** An individual natural soil aggregate, such as a granule, a prism, or a block.
- **Pedon.** The smallest volume that can be called "a soil." A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10 square meters), depending on the variability of the soil.
- Percolation. The movement of water through the soil.

  Permeability. The quality of the soil that enables water or air to move downward through the profile. The rate at which a saturated soil transmits water is accepted as a measure of this quality. In soil physics, the rate is referred to as "saturated hydraulic conductivity," which is defined in the "Soil Survey Manual." In line with conventional usage in the engineering profession and with traditional usage in published soil surveys, this rate of flow continues to be expressed as "permeability." Terms describing permeability, measured in inches per hour, are as follows:

Impermeable	less than 0.0015 inch
Very slow	0.0015 to 0.06 inch
Slow	0.06 to 0.2 inch
Moderately slow	0.2 to 0.6 inch
Moderate	0.6 inch to 2.0 inches
Moderately rapid	2.0 to 6.0 inches
Rapid	6.0 to 20 inches
Very rapid	more than 20 inches

- **pH value.** A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.)
- **Phase, soil.** A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and flooding.

- **Piping** (in tables). Formation of subsurface tunnels or pipelike cavities by water moving through the soil.
- Pitted outwash plain. An outwash plain marked by many irregular depressions, such as kettles, shallow pits, and potholes, which formed by melting of incorporated ice masses; common in Wisconsin and Minnesota.
- **Plastic limit.** The moisture content at which a soil changes from semisolid to plastic.
- Plasticity index. The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.
- Plateau. An extensive upland mass with relatively flat summit area that is considerably elevated (more than 100 meters) above adjacent lowlands and separated from them on one or more sides by escarpments.
- **Ponding.** Standing water on soils in closed depressions. Unless the soils are artificially drained, the water can be removed only by percolation or evapotranspiration.
- **Poorly graded.** Refers to a coarse grained soil or soil material consisting mainly of particles of nearly the same size. Because there is little difference in size of the particles, density can be increased only slightly by compaction.
- **Potential native plant community.** See Climax plant community.
- Potential rooting depth (effective rooting depth).

  Depth to which roots could penetrate if the content of moisture in the soil were adequate. The soil has no properties restricting the penetration of roots to this depth.
- **Prescribed burning.** Deliberately burning an area for specific management purposes, under the appropriate conditions of weather and soil moisture and at the proper time of day.
- **Productivity, soil.** The capability of a soil for producing a specified plant or sequence of plants under specific management.
- **Profile, soil.** A vertical section of the soil extending through all its horizons and into the parent material.
- Proper grazing use. Grazing at an intensity that maintains enough cover to protect the soil and maintain or improve the quantity and quality of the desirable vegetation. This practice increases the vigor and reproduction capacity of the key plants and promotes the accumulation of litter and mulch necessary to conserve soil and water.
- **Reaction, soil.** A measure of acidity or alkalinity of a soil, expressed in pH values. A soil that tests to pH

7.0 is described as precisely neutral in reaction because it is neither acid nor alkaline. The degrees of acidity or alkalinity, expressed as pH values, are:

Ultra acid	less than	3.5
Extremely acid	3.5 to	4.4
Very strongly acid	4.5 to	5.0
Strongly acid	5.1 to	5.5
Moderately acid	5.6 to	6.0
Slightly acid	6.1 to	6.5
Neutral	6.6 to	7.3
Slightly alkaline	7.4 to	7.8
Moderately alkaline	7.9 to	8.4
Strongly alkaline	8.5 to	9.0
Very strongly alkaline	9.1 and hig	her

#### Redoximorphic concentrations. Nodules,

concretions, soft masses, pore linings, and other features resulting from the accumulation of iron or manganese oxide. An indication of chemical reduction and oxidation resulting from saturation.

- Redoximorphic depletions. Low-chroma zones from which iron and manganese oxide or a combination of iron and manganese oxide and clay has been removed. These zones are indications of the chemical reduction of iron resulting from saturation.
- Redoximorphic features. Redoximorphic concentrations, redoximorphic depletions, reduced matrices, a positive reaction to alpha, alphadipyridyl, and other features indicating the chemical reduction and oxidation of iron and manganese compounds resulting from saturation.
- Reduced matrix. A soil matrix that has low chroma in situ because of chemically reduced iron (Fe II). The chemical reduction results from nearly continuous wetness. The matrix undergoes a change in hue or chroma within 30 minutes after exposure to air as the iron is oxidized (Fe III). A type of redoximorphic feature.
- **Regolith.** The unconsolidated mantle of weathered rock and soil material on the earth's surface; the loose earth material above the solid rock.
- **Relief.** The elevations or inequalities of a land surface, considered collectively.
- Residuum (residual soil material). Unconsolidated, weathered or partly weathered mineral material that accumulated as consolidated rock disintegrated in place.
- **Rill.** A steep-sided channel resulting from accelerated erosion. A rill generally is a few inches deep and not wide enough to be an obstacle to farm machinery.
- **Rise.** A slight increase in elevation of the land surface,

- typically with a broad summit and gently sloping sides.
- **Road cut.** A sloping surface produced by mechanical means during road construction. It is commonly on the uphill side of the road.
- **Rock fragments.** Rock or mineral fragments having a diameter of 2 millimeters or more; for example, pebbles, cobbles, stones, and boulders.
- **Root zone.** The part of the soil that can be penetrated by plant roots.
- Runoff. The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface runoff. Water that enters the soil before reaching surface streams is called groundwater runoff or seepage flow from ground water.
- **Saline soil.** A soil containing soluble salts in an amount that impairs growth of plants. A saline soil does not contain excess exchangeable sodium.
- **Sand.** As a soil separate, individual rock or mineral fragments from 0.05 millimeter to 2.0 millimeters in diameter. Most sand grains consist of quartz. As a soil textural class, a soil that is 85 percent or more sand and not more than 10 percent clay.
- **Sandstone.** Sedimentary rock containing dominantly sand-sized particles.
- Sapric soil material (muck). The most highly decomposed of all organic soil material. Muck has the least amount of plant fiber, the highest bulk density, and the lowest water content at saturation of all organic soil material.
- **Saprolite.** Unconsolidated residual material underlying the soil and grading to hard bedrock below.
- **Saturated hydraulic conductivity (K**<sub>sat</sub>). See Permeability.
- **Saturation.** Wetness characterized by zero or positive pressure of the soil water. Under conditions of saturation, the water will flow from the soil matrix into an unlined auger hole.
- **Scarification.** The act of abrading, scratching, loosening, crushing, or modifying the surface to increase water absorption or to provide a more tillable soil.
- **Second bottom.** The first terrace above the normal flood plain (or first bottom) of a river.
- Sedimentary rock. Rock made up of particles deposited from suspension in water. The chief kinds of sedimentary rock are conglomerate, formed from gravel; sandstone, formed from sand; shale, formed from clay; and limestone, formed from soft masses of calcium carbonate. There are many intermediate types. Some wind-deposited sand is consolidated into sandstone.

- **Seepage** (in tables). The movement of water through the soil adversely affects the specified use.
- **Sequum.** A sequence consisting of an illuvial horizon and the overlying eluvial horizon. (See Eluviation.)
- **Series, soil.** A group of soils that have profiles that are almost alike, except for differences in texture of the surface layer. All the soils of a series have horizons that are similar in composition, thickness, and arrangement.
- **Shale.** Sedimentary rock formed by the hardening of a clay deposit.
- **Sheet erosion.** The removal of a fairly uniform layer of soil material from the land surface by the action of rainfall and surface runoff.
- **Shoulder.** The position that forms the uppermost inclined surface near the top of a hillslope. It is a transition from backslope to summit. The surface is dominantly convex in profile and erosional in origin.
- Shrink-swell (in tables). The shrinking of soil when dry and the swelling when wet. Shrinking and swelling can damage roads, dams, building foundations, and other structures. It can also damage plant roots.
- **Side slope.** A geomorphic component of hills consisting of a laterally planar area of a hillside. The overland waterflow is predominantly parallel.
- **Silica.** A combination of silicon and oxygen. The mineral form is called quartz.
- Silt. As a soil separate, individual mineral particles that range in diameter from the upper limit of clay (0.002 millimeter) to the lower limit of very fine sand (0.05 millimeter). As a soil textural class, soil that is 80 percent or more silt and less than 12 percent clay.
- **Siltstone.** Sedimentary rock made up of dominantly silt-sized particles.
- Similar soils. Soils that share limits of diagnostic criteria, behave and perform in a similar manner, and have similar conservation needs or management requirements for the major land uses in the survey area.
- **Sinkhole.** A depression in the landscape where limestone has been dissolved.
- Slickensides. Polished and grooved surfaces produced by one mass sliding past another. In soils, slickensides may occur at the bases of slip surfaces on the steeper slopes; on faces of blocks, prisms, and columns; and in swelling clayey soils, where there is marked change in moisture content.
- **Slope.** The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then

- multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance.
- **Slope** (in tables). Slope is great enough that special practices are required to ensure satisfactory performance of the soil for a specific use.
- Sloughed till. Water-saturated till that has flowed slowly downhill from its original place of deposit by glacial ice. It may rest on other till, on glacial outwash, or on a glaciolacustrine deposit.
- **Slow refill** (in tables). The slow filling of ponds, resulting from restricted permeability in the soil.
- Sodium adsorption ratio (SAR). A measure of the amount of sodium (Na) relative to calcium (Ca) and magnesium (Mg) in the water extract from saturated soil paste. It is the ratio of the Na concentration divided by the square root of one-half of the Ca + Mg concentration.
- **Soft bedrock.** Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.
- **Soil.** A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief and by the passage of time.
- Soil separates. Mineral particles less than 2 millimeters in equivalent diameter and ranging between specified size limits. The names and sizes, in millimeters, of separates recognized in the United States are as follows:

Very coarse sand	2.0 to 1.0
Coarse sand	1.0 to 0.5
Medium sand	0.5 to 0.25
Fine sand	0.25 to 0.10
Very fine sand	0.10 to 0.05
Silt	0.05 to 0.002
Clay	less than 0.002

- **Solum.** The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.
- Stagnation moraine. A body of drift released by the melting of a glacier that ceased flowing.

  Commonly, but not always, occurs near ice margins; composed of till, ice-contact stratified drift, and small areas of glacial lake sediment.

  Typical landforms are knob-and-kettle topography, locally including ice-walled lake plains.

- Stone line. A concentration of rock fragments in a soil. Generally, it is indicative of an old weathered surface. In a cross section, the line may be one fragment or more thick. It generally overlies material that weathered in place and is overlain by recent sediment of variable thickness.
- **Stones.** Rock fragments 10 to 24 inches (25 to 60 centimeters) in diameter if rounded or 15 to 24 inches (38 to 60 centimeters) in length if flat.
- **Stony.** Refers to a soil containing stones in numbers that interfere with or prevent tillage.
- **Stripcropping.** Growing crops in a systematic arrangement of strips or bands that provide vegetative barriers to wind erosion and water erosion.
- Structure, soil. The arrangement of primary soil particles into compound particles or aggregates. The principal forms of soil structure are—platy (laminated), prismatic (vertical axis of aggregates longer than horizontal), columnar (prisms with rounded tops), blocky (angular or subangular), and granular. Structureless soils are either single grained (each grain by itself, as in dune sand) or massive (the particles adhering without any regular cleavage, as in many hardpans).
- Stubble mulch. Stubble or other crop residue left on the soil or partly worked into the soil. It protects the soil from wind erosion and water erosion after harvest, during preparation of a seedbed for the next crop, and during the early growing period of the new crop.
- Subsidence. The potential decrease in surface elevation as a result of the drainage of wet soils that have organic layers or semifluid mineral layers. Subsidence, as a result of drainage, is attributed to (1) shrinkage from drying, (2) consolidation because of the loss of ground-water buoyancy, (3) compaction from tillage or manipulation, (4) wind erosion, (5) burning, and (6) biochemical oxidation.
- **Subsoil.** Technically, the B horizon; roughly, the part of the solum below plow depth.
- **Subsoiling.** Tilling a soil below normal plow depth, ordinarily to shatter or loosen a layer that restricts roots.
- **Substratum.** The part of the soil below the solum. **Subsurface layer.** Any surface soil horizon (A, E, AB, or EB) below the surface layer.
- **Summit.** The topographically highest position of a hillslope. It has a nearly level (planar or only slightly convex) surface.
- **Surface layer.** The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters).

- Frequently designated as the "plow layer," or the "Ap horizon."
- **Surface soil.** The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.
- **Swale.** A slight depression in the midst of generally level land. A shallow depression in an undulating ground moraine caused by uneven glacial deposition.
- **Terminal moraine.** A belt of thick glacial drift that generally marks the termination of important glacial advances.
- Terrace. An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field generally is built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.
- **Terrace** (geologic). An old alluvial plain, ordinarily flat or undulating, bordering a river, a lake, or the sea.
- **Texture, soil.** The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, and clay. The sand, loamy sand, and sandy loam classes may be further divided by specifying "coarse," "fine," or "very fine."
- **Till plain.** An extensive area of nearly level to undulating soils underlain by glacial till.
- **Tilth, soil.** The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.
- **Toeslope.** The position that forms the gently inclined surface at the base of a hillslope. Toeslopes in profile are commonly gentle and linear and are constructional surfaces forming the lower part of a hillslope continuum that grades to valley or closed-depression floors.
- **Topsoil.** The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.
- **Trace elements.** Chemical elements, for example, zinc, cobalt, manganese, copper, and iron, in soils in extremely small amounts. They are essential to plant growth.
- **Upland.** Land at a higher elevation, in general, than

- the alluvial plain or stream terrace; land above the lowlands along streams.
- Valley fill. In glaciated regions, material deposited in stream valleys by glacial meltwater. In nonglaciated regions, alluvium deposited by heavily loaded streams.
- **Variegation.** Refers to patterns of contrasting colors assumed to be inherited from the parent material rather than to be the result of poor drainage.
- Water bars. Smooth, shallow ditches or depressional areas that are excavated at an angle across a sloping road. They are used to reduce the downward velocity of water and divert it off and away from the road surface. Water bars can easily be driven over if constructed properly.
- **Weathering.** All physical and chemical changes produced in rocks or other deposits at or near the earth's surface by atmospheric agents. These

- changes result in disintegration and decomposition of the material.
- Well graded. Refers to soil material consisting of coarse grained particles that are well distributed over a wide range in size or diameter. Such soil normally can be easily increased in density and bearing properties by compaction. Contrasts with poorly graded soil.
- Wilting point (or permanent wilting point). The moisture content of soil, on an ovendry basis, at which a plant (specifically a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.
- **Windthrow.** The uprooting and tipping over of trees by the wind.
- **Woody peat.** An accumulation of organic material that is predominantly composed of trees, shrubs, and other woody plants.